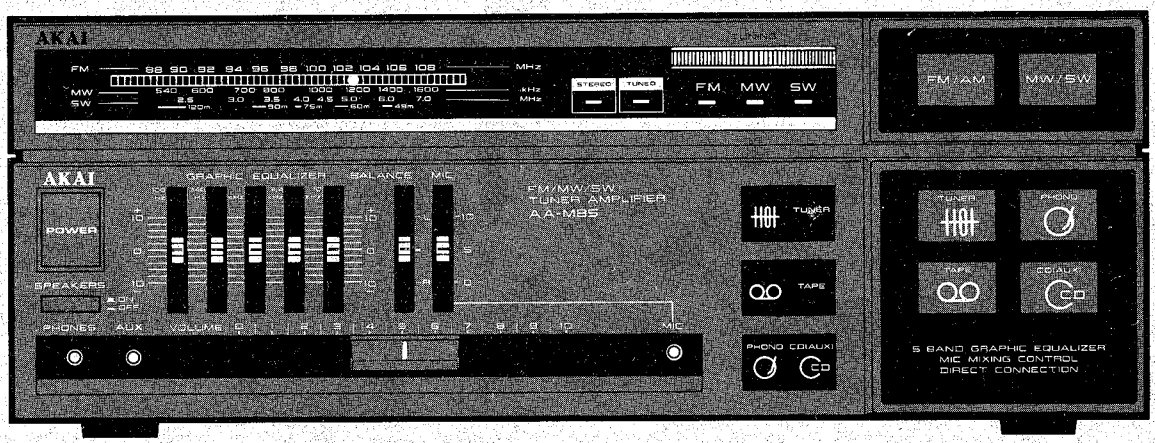
# AKAI SERVICE MANUAL




## TUNER AMPLIFIER

## MODEL AA-M8S/L

# TUNER AMPLIFIER

# MODEL AA-M8S/L

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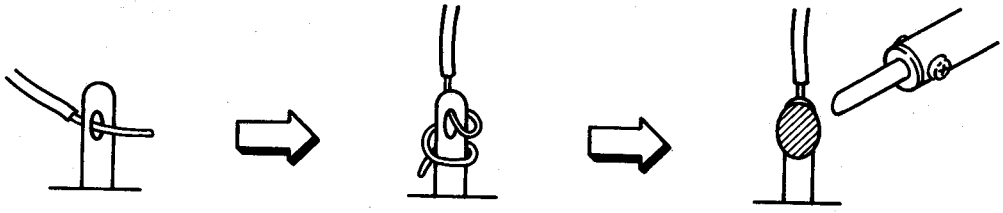
# SAFETY INSTRUCTIONS

## SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for [C] or [A], specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks. line-in-out jacks etc.)

## PRECAUTIONS DURING SERVICING

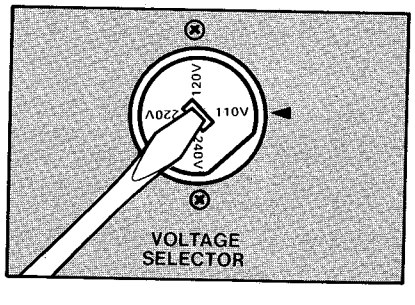
1. Parts identified by the ⚠ symbol parts are critical for safety.
   Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

## VOLTAGE CONVERSION

Models for some countries are not equipped with this facility, each machine is preset at the factory according to destination, but some machine can be set to 110V, 120V, 220V or 240V as required.
If the machine's voltage can be converted.
Before connecting the AC power cord, turn the VOLTAGE SELECTOR located on the rear panel with a screw-driver untill correct voltage is indicated.



SECTION 1

# SERVICE MANUAL

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

# I. SPECIFICATIONS

## AMPLIFIER SECTION

| | |
|---|---|
| FTC OUTPUT POWER | |
| 40Hz to 20.000Hz | 30W + 30W (0.7% T.H.D., 8 ohms) |
| RATED POWER OUTPUT | |
| 40Hz to 20.000Hz | 25W + 25W (0.3% T.H.D., 8 ohms) |
| 1,000Hz | 27W + 27W (0.3% T.H.D., 8 ohms) |
| FREQUENCY RESPONSE (AUX) | 4Hz to 35kHz + 0dB, −3dB |
| PHONO EQUALIZER DEVIATION | ±1dB (20Hz to 20,000Hz) |
| EQUALIZER | ±10dB (100Hz 340Hz, 1kHz, 3.4kHz, 10kHz) |
| SIGNAL TO NOISE RATIO (IHF–A) | |
| PHONO | 72dB |
| AUX | 90dB |
| MIC | 70dB |
| RESIDUAL NOISE (IHF–A) | 0.5mV |
| INPUT SENSITIVITY/IMPEDANCE | |
| PHONO | 2.5mV/47 kohms |
| AUX/CD | 220mV/22kohms |
| MIC | 3.0mV/35 kohms |

## FM TUNER SECTION

| | |
|---|---|
| TUNING FREQUENCY RANGE | 87.5MHz to 108.5MHz |
| USABLE SENSITIVITY | 21dBf |
| S/N (IHF–A) | 70dB (Mono)/55dB (Stereo) |
| SELECTIVITY | 60dB |
| IMAGE REJECTION RATIO | 30dB |
| IF REJECTION RATIO | 90dB |
| CAPTURE RATIO | 1.5dB |
| STEREO SEPARATION | 35dB (1kHz) |
| ANTENNA TERMINAL | 75 ohms coaxial |

## MW TUNER SECTION

| | |
|---|---|
| TUNING FREQUENCY RANGE | 522kHz to 1,611kHz |
| USABLE SENSITIVITY (IHF) | 300μV/m |
| SELECTIVITY (IHF) | 35dB |
| IMAGE REJECTION RATIO | 38dB |
| IF REJECTION RATIO | 50dB |
| S/N | 45dB |

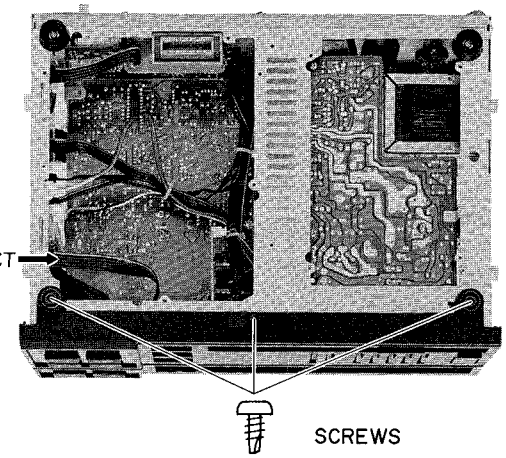
| SW and LW TUNER SECTION | Model AA–M8S | Model AA–M8L |
|---|---|---|
| TUNING FREQUENCY RANGE | 2.2MHz to 7.3MHz | 142kHz to 365kHz |
| USABLE SENSITIVITY | 180μV/m | 1000μV/m |
| SELECTIVITY (IHF) | 35dB | 35dB |
| IMAGE REJECTION | 30dB | 45dB |
| IF REJECTION RATIO | 50dB | 50dB |
| S/N | 45dB | 35dB |
| ANTENNA | 300 ohms | |
| POWER REQUIREMENTS | 120V, 60Hz for USA & Canada<br>220V, 50Hz for Europe except UK<br>240V, 50Hz for UK & Australia<br>110V/120V/220V/240V, 50Hz/60Hz convertible for other countries | |
| DIMENSIONS | 350(W) x 127(H) x 260(D) mm<br>(13.8 x 5.0 x 10.2 inches) | |
| WEIGHT | 5.0kg (11.0 lbs) | |

* For improvement purposes, specifications and design are subject to change without notice.

# II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

3

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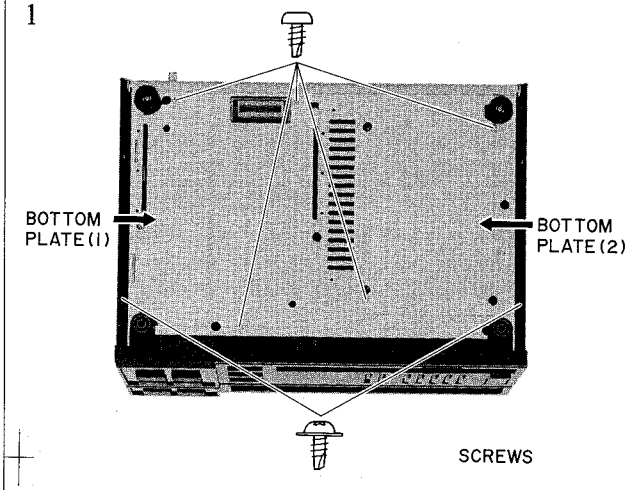


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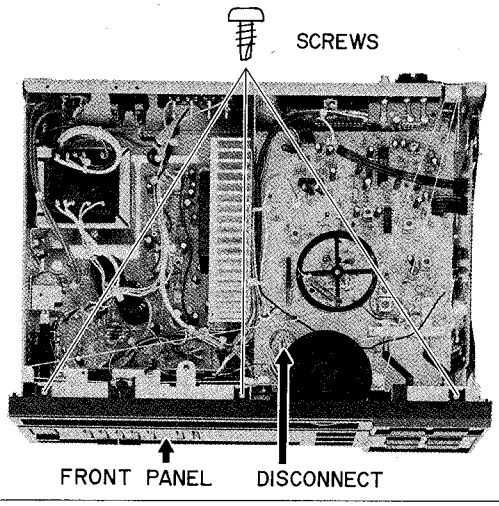


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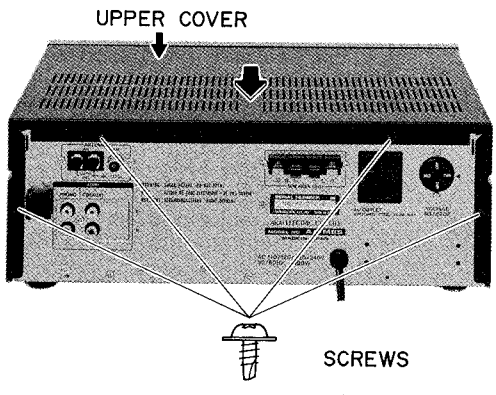


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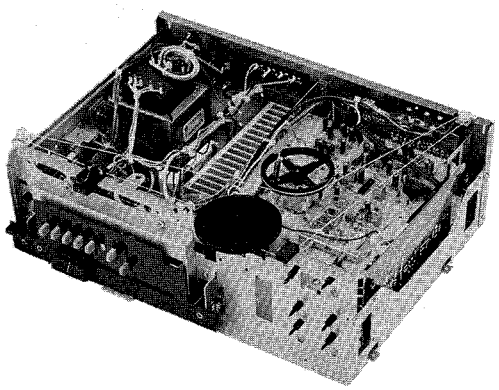


# III. CONTROLS

**POWER switch**
To turn on and off the Akai AA-M8S.

**Commutateur d'alimentation (POWER)**
Pour mettre sous tension et hors circuit le AA-M8S Akai.

**GRAPHIC EQUALIZER Frequency Level Controls (100Hz to 10kHz)**
To boost (increase) or cut (decrease) the indicated frequency levels.

**Contrôles de niveau de fréquence de l'égaliseur graphique (100 Hz à 10 kHz)**
Pour élever ou décroitre les niveaux de fréquence indiqués.

**Tuning scale**
Shows the band and the frequency.

**Echelle de syntonisation (TUNING)**
Montre la bande et la fréquence.

**Tuning indicator**
Shows you the tuning frequency.

**Indicateur de syntonisation**
Vous montre la fréquence de syntonisation.

**BAND selector**
To select the band.

**Sélecteur de bande (BAND)**
Pour sélectionner la bande.

Lights when an **FM stereo** broadcast is tuned in.

S'allume quand une émission **MF stéréo** est syntonisée

Shows the band.

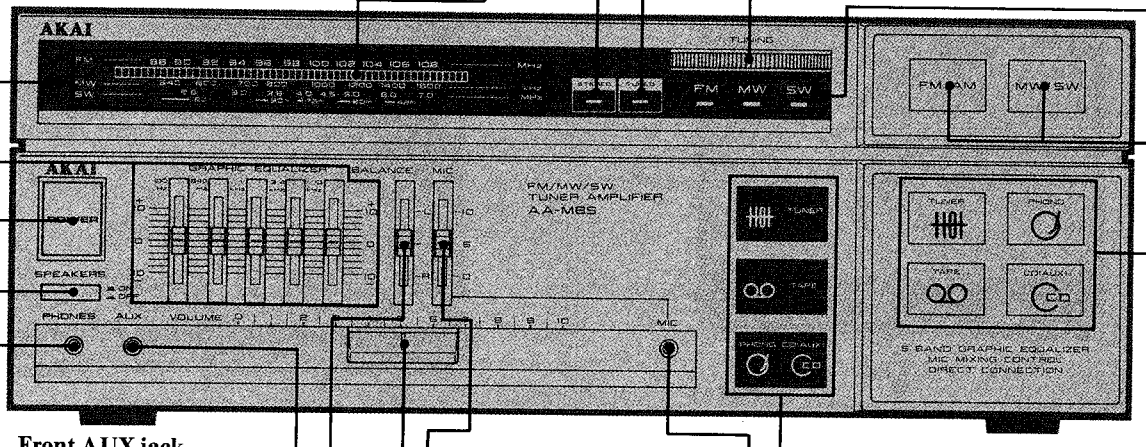
Montre la bande.

Lights when a station is tuned in properly.

S'allume quand une station est syntonisée correctement.

**TUNING control**
To tune in a station.

**Contrôle de syntonisation (TUNING)**
Pour syntoniser une station.




**Front AUX jack (Stereo)**

**Jack AUX frontal (stéréo)**

**PHONES jack**
For listening through headphones.

**Jack de casque (PHONES)**
Pour une écoute au casque.

**BALANCE control**
To adjust the left and right channel balance.

**Commande d'équilibre (BALANCE)**
Pour régler l'équilibre des canaux gauche et droit.

**SPEAKERS(ON ▲ / ▁ OFF) switch**
To turn on and off the speaker system.
When using the headphones, set this switch to OFF ( ▁ ).

**Commutateur marche/arrêt haut-parleurs (SPEAKERS ON ▲ /OFF ▁ )**
Pour mettre sous tension et hors circuit le système d'enceintes.
Réglez ce commutateur sur arrêt (OFF ▁ ) lors de l'utilisation d'un casque.

**MIC level control**
To adjust the microphone level when microphone mixing.

**Commande de niveau microphone (MIC LEVEL)**
Pour régler le niveau microphone lors d'un mixage au microphone.

**VOLUME control**
To adjust the volume level.

**Commande de VOLUME**
Pour régler le niveau de volume.

**Input Source Indicators**
Light to indicate which input source has been selected.

**Indicateurs de source d'entrée**
S'allument pour indiquer quelle source d'entrée a été sélectionnée.

**MIC jack**
For microphone mixing.

**Jack micro (MIC)**
Pour un mixage au microphone

**Input source selectors (TAPE, CD(AUX), TUNER and PHONO)**
To select the audio source you want to listen to.

**Sélecteurs de source d'entrée (bande (TAPE), AUX, TUNER et PHONO)**
Pour sélectionner la source que vous désirez écouter.

Fig. 3-1 Front View

# IV. PRINCIPAL PARTS LOCATION

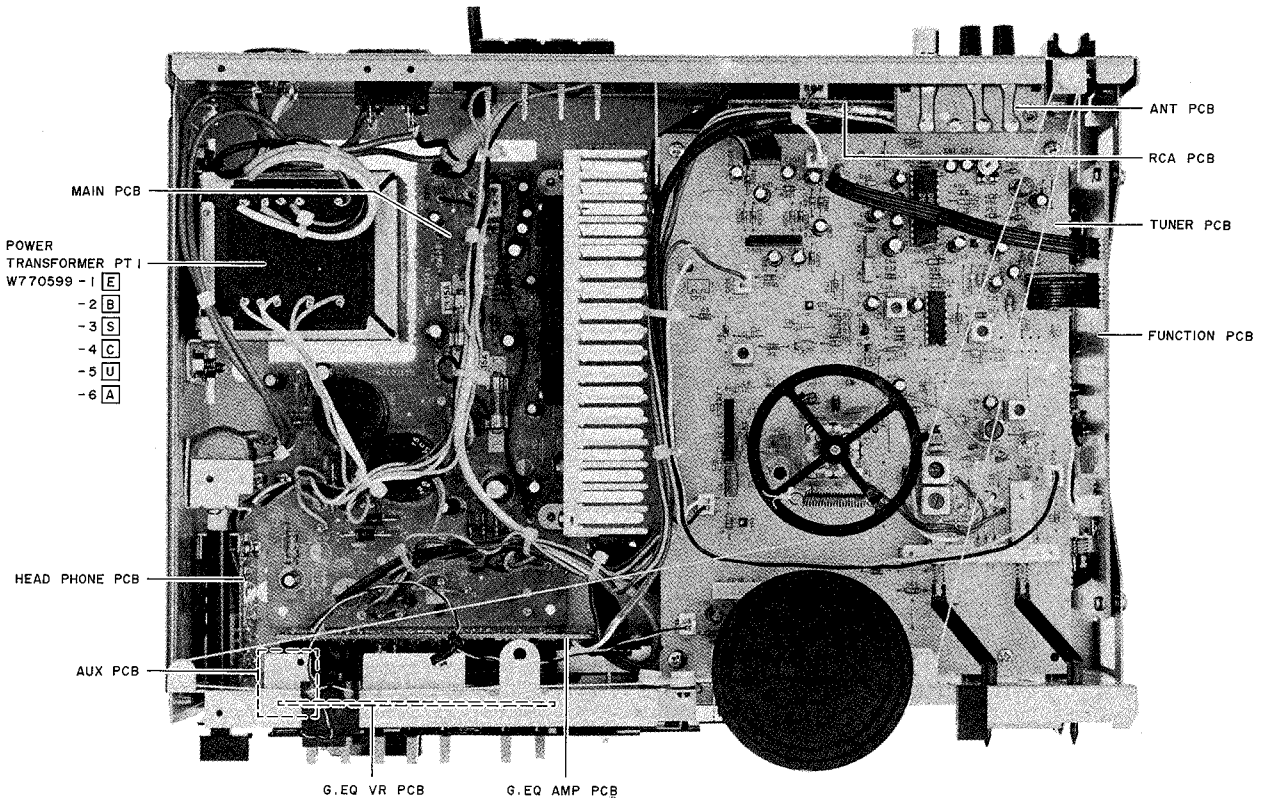



Fig. 4-1 Top View

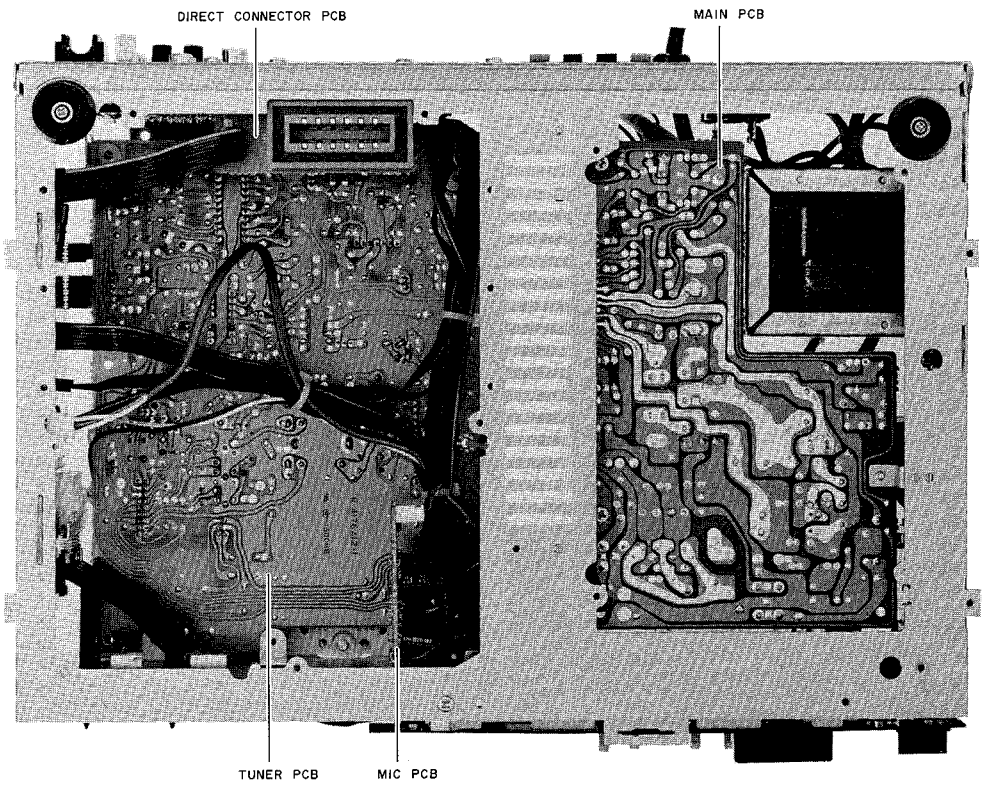
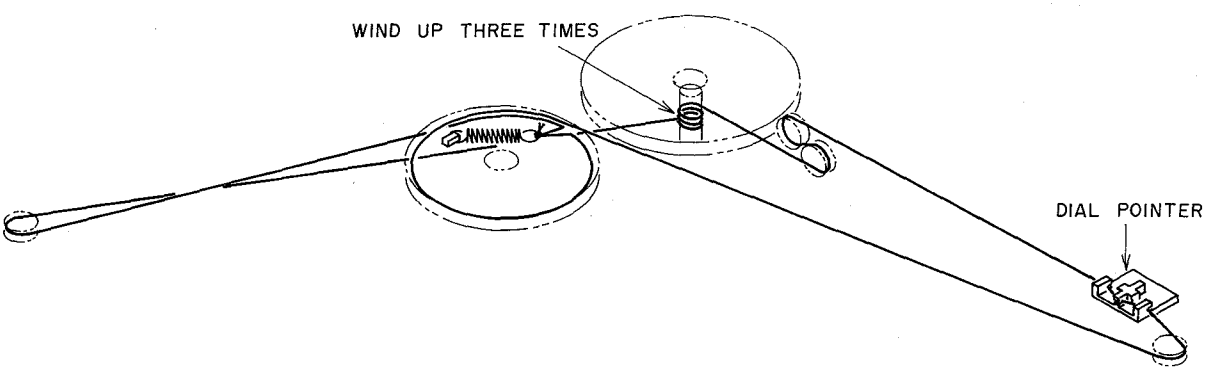



Fig. 4-2 Bottom View

# V. DIAL CORD THREADING



# VI. ADJUSTMENTS

## 6-1. INSTRUMENT CONNECTIONS

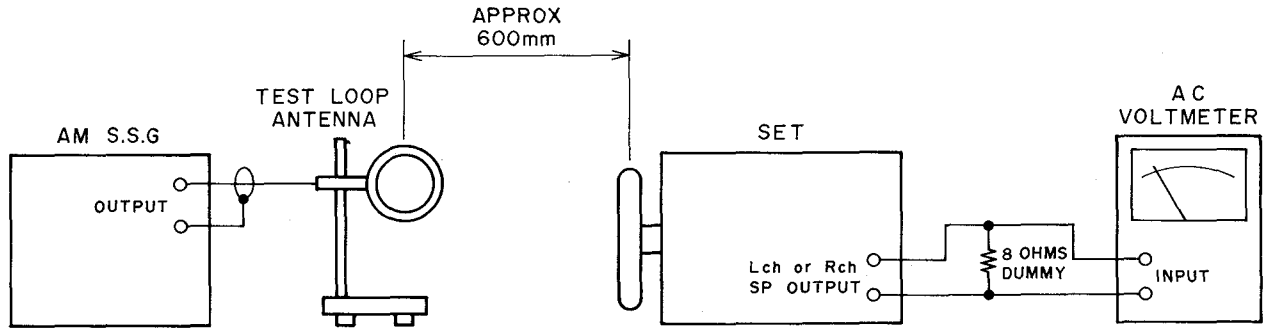



Fig. 6-1 Instruments Connection for AM (MW)/LW/SW Section Adjustments

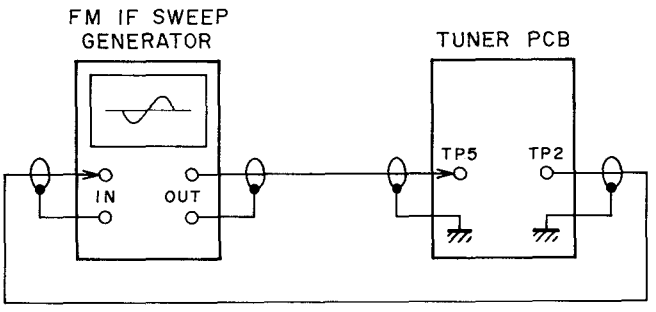



Fig. 6-2 Instruments Connection for FM IF Adjustment

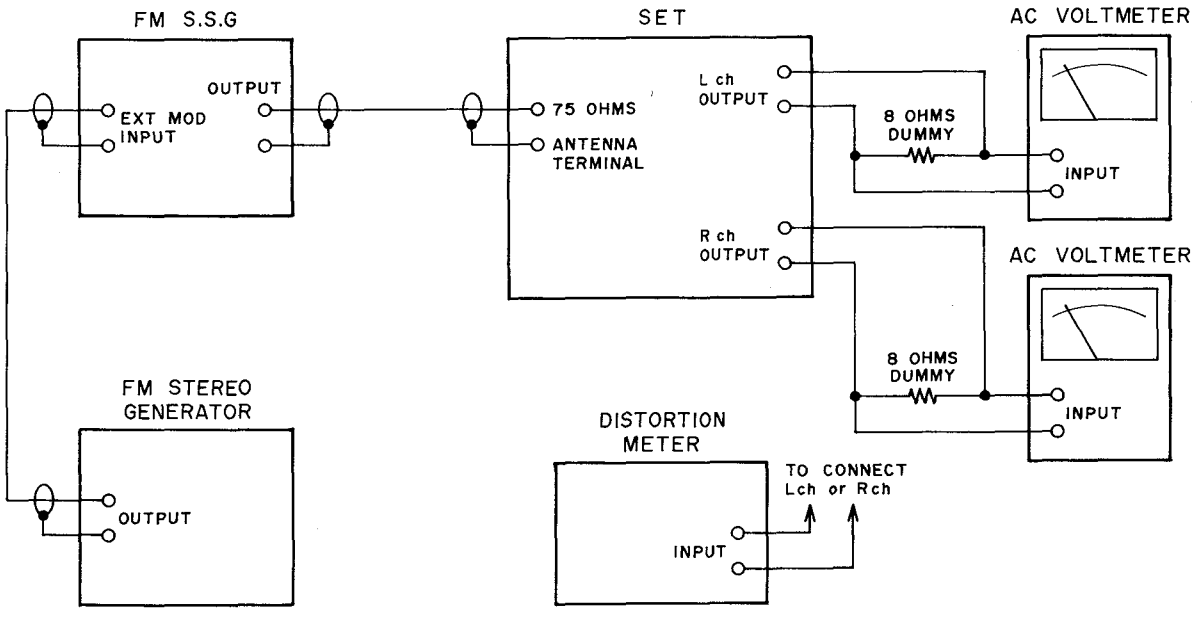



Fig. 6-3 Instruments Connection for FM Section Adjustments

## 6-2. TUNER PC BOARD ADJUSTMENT POINTS

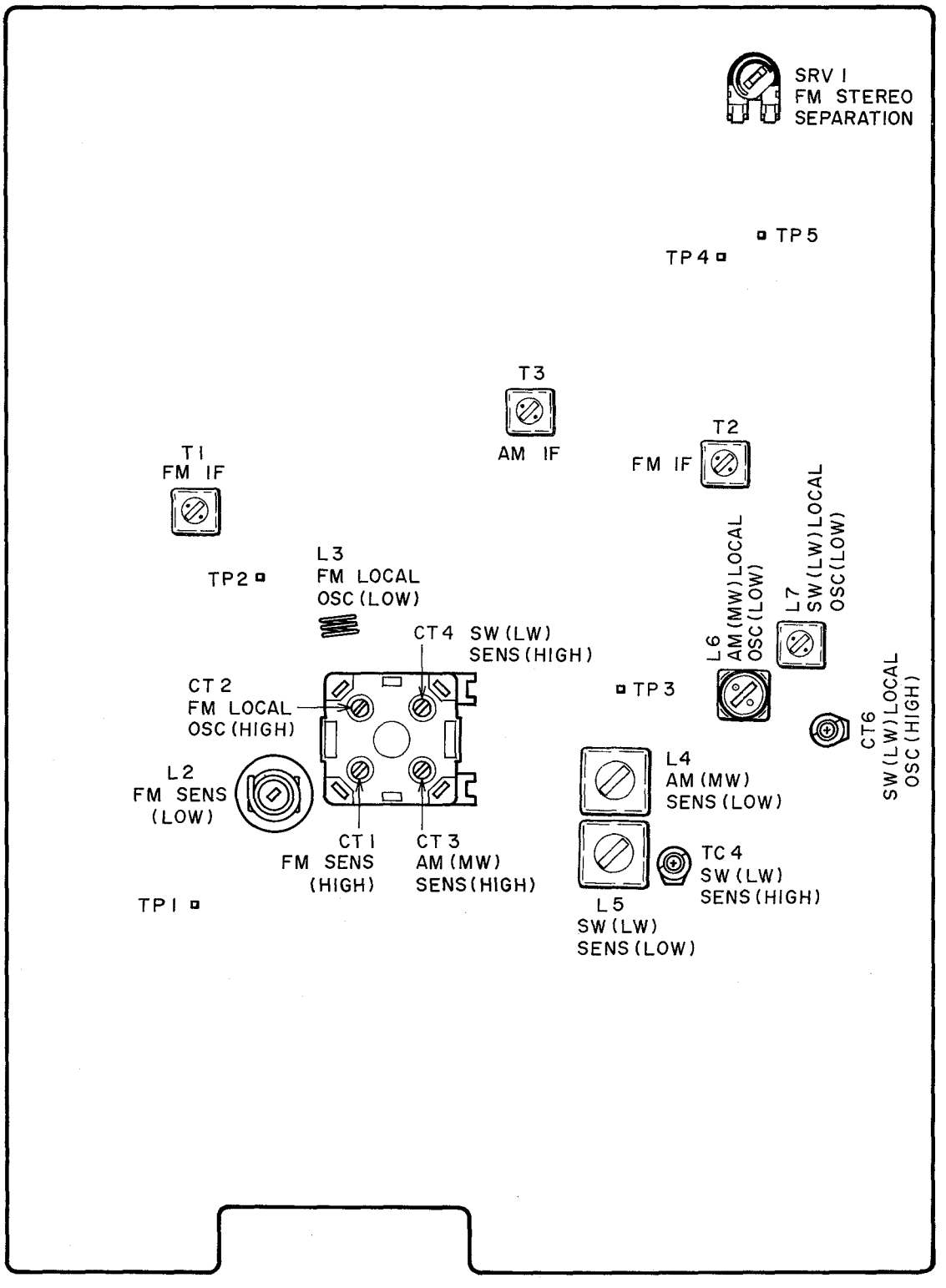



Fig. 6-4 TUNER PCB Adjustment Points

## 6-3. AM (MW, SW, & LW) SECTION ADJUSTMENTS

NOTE: 1. Set the internal modulation of S.S.G (Stand Signal Generator) to 400Hz, 30% modulation.
2. Set FUNCTION switch of AA–M8S/L to TUNER.
3. Result of all adjustments below are bring to maximum output level and minimum Distortion.
4. SW BAND is available for model AA–M8S, and LW BAND is available for model AA–M8L only.

| Step | Adjustment | S.S.G | | SET | | Adjustment Part | Remarks |
|---|---|---|---|---|---|---|---|
| | | Frequency | ATT | Band SW | Dial Pointer | | |
| 1 | MW IF | 460kHz | 120dB | MW | Low end | T3 | |
| 2 | MW Local OSC (Low) | 515kHz | 90dB | MW | Low end | L6 | * For best Result, Repeat alternately two or three times. |
| | MW Local OSC (High) | 1650kHz | 90dB | MW | High end | CT5 | |
| 3 | MW Low Range Sensitivity | 600kHz | 80dB | MW | TUNE 600kHz | L4 | * For best Result, Repeat alternately two or three times. |
| | MW High Range Sensitivity | 1400kHz | 80dB | MW | TUNE 1400kHz | CT3 | |
| 4 | SW (LW) Local OSC (Low) | 2.1MHz (SW) | 90dB | SW | Low end | L7 | * For best Result, Repeat alternately two or three times. |
| | | 141kHz (LW) | 100dB | LW | | | |
| | SW (LW) Local OSC (High) | 7.5MHz (SW) | 90dB | SW | High end | CT6 | |
| | | 360kHz (LW) | 100dB | LW | | | |
| 5 | SW (LW) Low Range Sensitivity | 2.5MHz (SW) | 80dB | SW | TUNE 2.5MHz | L5 | * For best Result, Repeat alternately two or three times. |
| | | 155kHz (LW) | 90dB | LW | TUNE 155kHz | | |
| | SW (LW) High Range Sensitivity | 6.5MHz (SW) | 80dB | SW | TUNE 6.5MHz | CT4 | * For best Result, Repeat alternately two or three times. |
| | | 355kHz (LW) | 90dB | LW | TUNE 355kHz | | |

## 6-4. FM SECTION ADJUSTMENTS

NOTE: 1. Set the internal modulation of S.S.G to 1kHz, 75kHz diviation.
2. Set the STEREO S.S.G is PILOT (6.75kHz diviation) and signal 1kHz 68.25kHz dev.
3. Set the FUNCTION switch to TUNER.
4. Result of all adjustment below are bring to maximum output level and Minimum distortion.

| Step | Adjustment | S.S.G | | SET | | Adjustment Part | Remakrs |
|---|---|---|---|---|---|---|---|
| | | Frequency | ATT | Band SW | Dial Pointer | | |
| 1 | FM IF | Use FM IF sweep Generator as shown Fig. 4-2. | | FM | | T1,T2 | |
| 2 | FM Local OSC (Low) | 87.0MHz (MONO) | 50 to 20dBf | FM | Low end | L3 | * For best Result, Repeat alternately two or three times. |
| | FM Local OSC (High) | 109.0MHz (MONO) | 50 to 20dBf | FM | High end | CT2 | |
| 3 | FM Low Range Sensitivity | 90.0MHz (MONO) | Less than 22dBf | FM | Tune 90.0MHz | L2 | * For best Resutl, Repeat alternately two or three times. |
| | FM High Range Sensitivity | 106.0MHz (MONO) | Less than 22dBf | FM | Tune 106.0MHz | CT1 | |
| 4 | Stereo Separation | 88.0MHz (stereo) | 65.2 dBf | FM | Tune 88.0MHz L or R CH. | SVR1 | * NO signal channel is minimum output level. |

# VII. PC BOARD TITLEAND IDENTIFICATION NUMBERS

| PC BOARD TITLE | | PC BOARD NUMBER | REMARKS |
|---|---|---|---|
| FUNCTION SW | PC BOARD | R4176329–1 | |
| DIRECT CONNECTOR | PC BOARD | R4176329–2 | |
| LED 2 | PC BOARD | R4176329–3 | |
| HEADPHONE | PC BOARD | R4176329–4 | |
| G.EQ–VR | PC BOARD | R4176329–5 | |
| G.EQ AMP | PC BOARD | R4176329–6 | |
| AUX JACK | PC BOARD | R4176329–7 | |
| MIC | PC BOARD | R4176329–8 | |
| RCA | PC BOARD | R4176329–9 | |
| POINTER | PC BOARD | R4176329–10 | |
| MAIN | PC BOARD | R4176329–1 | |
| ANT | PC BOARD | R4176329–2 | |
| TUNER | PC BOARD | R4176412–1 | |
| LED 1 | PC BOARD | R4176412–2 | |

SECTION 2

# PARTS LIST

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Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

## ATTENTION

1. When placing an order for parts, be sure to list the parts no. model no., and description of each part. If any of this information is omitted, there are instances in which parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because part numbers and part definitions and supply in the Preliminary Parts List may have been the subject of changes, please use this parts list for all future reference.

## HOW TO USE THIS PARTS LIST

1. This Parts List shows those parts which are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts" from which these parts should be selected and parts.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the parts list

a) Mechanism Block

### 2. HEAD BASE BLOCK

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 2-1x | BH-T2023A320A | HEAD BASE BLOCK GX-F66R |
| 2-2 | HP-H2206A010A | HEAD R/P PR4-8FU C |
| 2-3 | ZS-477876 | PAN20x03STL CMT |
| 2-4 | ZS-536488 | BID20x08STL CMT |
| 2-5 | ZG-402895 | CS ANGLE ADJUST SPRING |

SP (Service Parts) Classification

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

This number corresponds with the individual parts index number in that figure

This number corresponds with the Figure Number

b) P.C Board Block

### 6. SYS. CON. P C BOARD BLOCK

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 6-1 | BA-T2034A070A | PC SYS CON BLK GX-F44R |
| 6-IC1 | EI-324536 | IC HD14049BP |
| 6-IC2 | EI-336801 | IC MB8841-564M |
| 6-IC3 | EI-331661 | IC SN7405N |
| 6-IC4 | EI-336725 | IC M54527P |
| 6-TR1to4 | ET-200985 | TR 2SC2603 F,G |
| 6-TR5to28 | ET-554657 | TR 2SA733A P,Q |
| 6-D1 | ED-318292 | D SILICON H 1S2473T-77 T26 |
| 6-D2to4 | ED-308952 | D GERMA V 1K34A-LR F07 |
| 6-D5to10 | ED-318292 | D SILICON H 1S2473T-77 T26 |
| 6-X1 | EI-318384 | OSC X'TAL NC-18C 3.579545MHZ |

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

5. The kind of part and its installation position can both be determined by the Part Number. To determine where a part number is listed, utilize the Parts Index at the end of the Parts List. It is necessary first of all to find the Part Number. This can be accomplished by using the Reference Number listed at the right of the part number in the Parts Index.

## WARNING

⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS

## AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

## RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

| REF. NO. | | PART NO. | DESCRIPTION |
|---|---|---|---|
| 1 | N | BT-715888 | ⚠ TRANS POWER R-W770599-1 (E) [E] |
| 2 | N | BT-715886 | ⚠ TRANS POWER R-W770599-2 (B) [B] |
| 3 | N | BT-715839 | ⚠ TRANS POWER R-W770599-3 [S] |
| 4 | N | BT-715837 | ⚠ TRANS POWER R-W770599-4 (C) [C] |
| 5 | N | BT-715818 | ⚠ TRANS POWER R-W770599-5 (U) [U] |
| 6 | N | BT-715833 | ⚠ TRANS POWER R-W770599-6 (A) [A] |
| 7 | | EC-749968 | C S-FIX |
| 8 | N | ED-714991 | D LED SLP-173B-01 RED |
| 9 | N | ED-714990 | D LED SLP-723B-01 GREEN |
| 10 | N | ED-714992 | D LED SLP-436C-50 AMBER |
| 11 | N | ED-714989 | D LED SLP-473B-01 AMBER |
| 12 | | ED-337414 | D LED SLP235B GREEN |
| 13 | | ED-357754 | D SILICON DS135D 200/1.0A |
| 14 | | ED-327057 | D SILICON H DS442X |
| 15 | N | ED-715933 | D SILICON H S3V20 |
| 16 | | ED-345552 | D VARACTOR 1S553T |
| 17 | | ED-712909 | D ZENER H GZA20 Y |
| 18 | | ED-710974 | D ZENER H GZA8.2 Y |
| 19 | N | EE-715826 | VC POLY R-C1755-1 |
| 20 | | EF-623103 | ⚠ FUSE SEMKO T 1.00A 250V [U,E,B,S] |
| 21 | | EF-691007 | ⚠ FUSE SEMKO T 3.15A 250V [U,E,B,S] |
| 22 | | EF-323616 | ⚠ FUSE ST6 125V 3.00A [C,A] |
| 23 | | EF-710905 | ⚠ FUSE 125V 2.5A [C] |
| 24 | N | EH-714999 | FILTER CE 10.7MHz |
| 25 | | EH-715003 | FILTER CE 460kHz |
| 26 | N | EI-714983 | IC BA3812L |
| 27 | N | EI-715892 | IC LA1261 |
| 28 | N | EI-715008 | IC LA3400 |
| 29 | N | EI-714974 | IC LC4066B |
| 30 | N | EI-714969 | IC L78M15 |
| 31 | | EI-714731 | IC M5218L |
| 32 | N | EI-715019 | IC STK4151 (2) |
| 33 | N | EI-713319 | IC TA7358AP |
| 34 | N | EI-715891 | OSC CE |
| 35 | | EJ-356521 | SOCKET CONNECTER-B M1701-A 12P |
| 36 | | ER-714714 | ⚠ R FUSE FMR 1/2W 100 [U] |
| 37 | | ER-711169 | ⚠ R FUSE H 1/2W 4R7J [E,B,S] |
| 38 | | ER-308898 | ⚠ R FUSE RF25SJ 1/4W 101J |
| 39 | | ES-710966 | ⚠ SW ROTARY R-S47646-1 [U] |
| 40 | | ES-712932 | SW PUSH |
| 41 | N | ES-715831 | SW PUSH R-S47028 |
| 42 | N | ES-715821 | SW PUSH R-S470281 |
| 43 | N | ES-714966 | SW PUSH SDL1P 4A/32A 250 |
| 44 | N | ET-715009 | TR FET 2SK315 E |
| 45 | N | ET-714975 | TR JC501 R |
| 46 | | ET-403413 | TR 2SC536NP H |
| 47 | | ET-711090 | TR 2SC930E-SP |
| 48 | N | EV-715006 | R S-FIX 104 |
| 49 | N | EV-714985 | VR SLIDE 254 |
| 50 | N | EV-714986 | VR SLIDE 503 |
| 51 | N | EV-714981 | VR SLIDE 503x2 |
| 52 | N | EV-714984 | VR SILDE 503x2 |

"NOTE" N: New Parts

SYMBOL FOR DESTINATION

[A] : AAL (USA)
[B] : UK (England)
[C] : CSA (Canada)
[E] : CEE (Europe)
[S] : SAA (Australia)
[U] : U/T (Universal Area)

## 1. PC BOARD BLOCK

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1-1A | BA-715819 | PC MAIN BLK AA-M8S [U] |
| 1-1B | BA-715834 | PC MAIN BLK AA-M8S (C,A) [C,A] |
| 1-1C | BA-715840 | PC MAIN BLK AA-M8S (S) [E,B,S] |
| 1-2 | BA-715820 | PC FUNCTION BLK AA-M8S |
| 1-3 | BA-715823 | PC GRAPHIC EQ(1) BLK AA-M8S |
| 1-4A | BA-715824 | PC TUNER BLK AA-M8S [U,C,A,S] |
| 1-4B | BA-715889 | PC TUNER BLK AA-M8L [E,B] |

## 2. MAIN PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 2-IC601 | EI-715019 | ⚠ IC STK4151 (2) |
| 2-IC651 | EI-714969 | ⚠ IC L78M15 |
| 2-D611 | ED-327057 | D SILICON H DS442X |
| 2-D612 | ED-357754 | D SILICON DS135D 200/1.0A [C,A,E,B,S] |
| 2-D613 | ED-357754 | D SILICON DS135D 200/1.0A |
| 2-D651 to 654 | ED-715933 | D SILICON H S3V20 |
| 2-D655,656 | ED-712909 | D ZENER H GZA20 Y |
| 2-D657 to 660 | ED-357754 | D SILICON DS135D 200/1.0A |
| 2-R606 | ER-714714 | ⚠ R FUSE FMR 1/2W 100 [U] |
| 2-R608 | ER-663502 | R CB H RD 1/2W 222J |
| 2-R609 | ER-666347 | R CB H RD 1/2W 102J |
| 2-R610A | ER-658124 | ⚠ R OMF H FS 1W 100J [U,C,A] |
| 2-R610B | ER-711169 | ⚠ R FUSE H 1/2W 4R7J [E,B,S] |
| 2-R615 | ER-539087 | ⚠ R OMF H FS 1W 222J |
| 2-R651,652 | ER-336841 | ⚠ R OMF H SNP FS 1W 332J |
| 2-R653,654 | ER-301697 | ⚠ R OMF H FS 1W 561J |
| 2-R706 | ER-714714 | ⚠ R FUSE FMR 1/2W 100 [U] |
| 2-R708 | ER-663502 | R CB H RD 1/2W 222J |
| 2-R709 | ER-666347 | R CB H RD 1/2W 102J |
| 2-R710A | ER-658124 | ⚠ R OMF H FS 1W 100J [U,C,A] |
| 2-R710B | ER-714970 | ⚠ R OMF 1W 4R7J [E,B,S] |
| 2-C651,652 | EC-334692 | ⚠ C EC V CUT AWA 332M 50DC |
| 2-F601A | EF-691007 | ⚠ FUSE SEMKO T 3.15A 250V [U,E,B,S] |
| 2-F601B | EF-323616 | ⚠ FUSE ST6 125V 3.00A [C,A] |
| 2-F701A | EF-691007 | ⚠ FUSE SEMKO T 3.15A 250V [U,E,B,S] |
| 2-F701B | EF-323616 | ⚠ FUSE ST6 125V 3.00A [C,A] |

## 3. TUNER PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 3-IC1 | EI-713319 | IC TA7358AP |
| 3-IC2 | EI-715892 | IC LA1261 |
| 3-IC3 | EI-715008 | IC LA3400 |
| 3-IC801 | EI-714731 | IC M5218L |
| 3-Q1 | ET-711090 | TR 2SC930E-SP |
| 3-Q2 | ET-715009 | TR FET 2SK315 E |
| 3-D1 | ED-327057 | D SILICON H DS442X |
| 3-D2 | ED-345552 | D VARACTOR 1S553T |
| 3-D3 | ED-327057 | D SILICON H DS442X |
| 3-D4 | ED-327057 | D SILICON H DS442X [E,B] |
| 3-D5 | ED-710974 | D ZENER H GZA8.2 Y |
| 3-D101 | ED-327057 | D SILICON H DS442X |
| 3-S2 | ES-715831 | SW PUSH R-S47028 |
| 3-L1 | EH-715827 | FILTER LC |
| 3-L2 | EO-714997 | COIL VHF |
| 3-L3 | EO-715828 | COIL VHF |
| 3-L4 | EO-715024 | COIL ANT 27187-01 |
| 3-L5A | EO-716314 | COIL ANT SW [U,C,A,S] |
| 3-L5B | EO-707990 | COIL TUN [L] |
| 3-L6 | EO-715025 | COIL OSC MW 87079-2 |
| 3-L7A | EO-715830 | COIL OSC SW1 87078 [EXCEPT L] |
| 3-L7B | EO-715890 | COIL OSC LW [L] |
| 3-L8,L9 | EO-711971 | COIL CHOKE 10MH |
| 3-L10 | EO-707225 | COIL FIX [E,B] |
| 3-T1 | EO-714998 | COIL IFT FM 5T766-5 |
| 3-T2 | EO-715040 | COIL IFT FMT 5T7074-1 |
| 3-T3 | EO-707230 | COIL IFT |
| 3-X1,X2 | EH-714999 | FILTER CE 10.7MHz |
| 3-X3 | EH-715003 | FILTER CE 460kHz |
| 3-X4 | EI-715891 | OSC CE |
| 3-SVR1 | EV-715006 | R S-FIX 104 |
| 3-CT4 | EC-749968 | C S-FIX |
| 3-CT6 | EC-749968 | C S-FIX |
| 3-R1 | ER-666347 | R CB H RD 1/2W 102J |
| 3-R16 | ER-520863 | R CB H RD 1/2W 221J |
| 3-R57 | ER-308898 | R FUSE RF25SJ 1/4W 101J |
| 3-C35 | EC-304849 | C STY V 361J 50DC |
| 3-C36A | EC-637132 | C STY V 122J 50DC [U,C,A,S] |
| 3-C36B | EC-306017 | C STY V F05 CQ09S 221J 50DC [E,B] |
| 3-VC | EE-715826 | VC POLY R-C1755-1 |

## 4. FUNCTION SW PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 4-IC251 | EI-714974 | IC LC4066B |
| 4-Q251 | ET-714975 | TR JC051 R |
| 4-S251 | ES-715821 | SW PUSH R-S470281 |

## 5. RCA PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 5-JK201 | EJ-715822 | PIN J 4P |

## 6. G.EQ AMP PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 6-IC401 | EI-714983 | IC BA3812L |
| 6-IC501 | EI-714983 | IC BA3812L |
| 6-VR408 | EV-714981 | VR SLIDE 503x2 |

## 7. G.EQ VR PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 7-VR401 | EV-714986 | VR SLIDE 503 |
| 7-VR402 | EV-714985 | VR SLIDE 254 |
| 7-VR403 to 407 | EV-714984 | VR SLIDE 503x2 |

## 8. MIC PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 8-Q461 | ET-403413 | TR 2SC536NP H |
| 8-JK461 | EJ-712930 | JACK |

## 9. HEAD PHONE PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 9-S631 | ES-712932 | SW PUSH |
| 9-JK631 | EJ-712931 | JACK |
| 9-R631 | ER-710996 | R OMF 1W 331J |
| 9-R731 | ER-710996 | R OMF 1W 331J |

## 10. LED (1) PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 10-D151 | ED-714991 | D LED SLP-173B-01 RED |
| 10-D152 | ED-714990 | D LED SLP-273B-01 GREEN |

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 10-D153 to 155 | ED-714989 | D LED SLP-473B-01 AMBER |

## 11. LED (2) PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 11-D271 | ED-714992 | D LED SLP-436C-50 AMBER |
| 11-D273 | ED-714992 | D LED SLP-436C-50 AMBER |
| 11-D275,276 | ED-714992 | D LED SLP-436C-50 AMBER |

## 12. DIRECT CONNECTOR PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 12-JK382 | EJ-356521 | SOCKET CONNECTOR-B M1701-A 12P |

## 13. AUX JACK PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 13-JK281 | EJ-712931 | JACK |

## 14. ANTENNA PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 14-JK1 | EJ-714988 | TERMINAL PLATE |

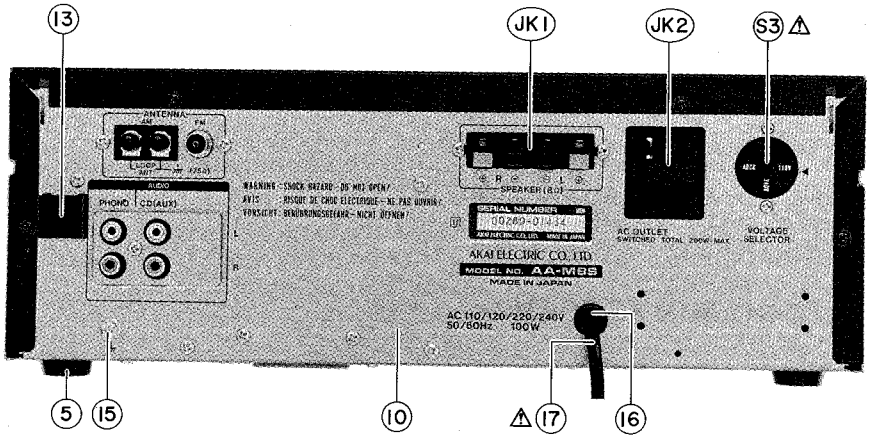
## 15. POINTER PC BOARD

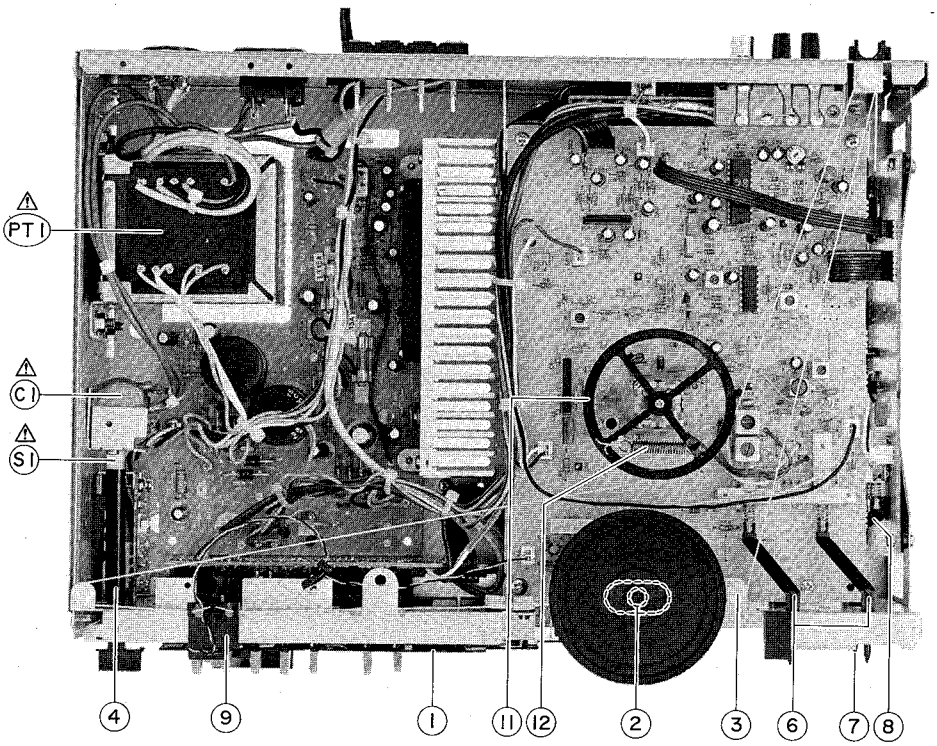
| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 15-D171 | ED-337414 | D LED SLP235B GREEN |

## 16. FUSE PC BOARD

| REF NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 16-C1 | EC-338411 | ⚠ C CE V FZ103P 400AC [C,E,B,S] |
| 16-L1 | EO-711184 | ⚠ COIL LF [E] |
| 16-F1A | EF-623103 | ⚠ FUSE SEMKO T 1.00A 250V [E,B,S] |
| 16-F1B | EF-710905 | ⚠ FUSE 125V 2.5A [C] |

## ASSEMBLY BLOCK



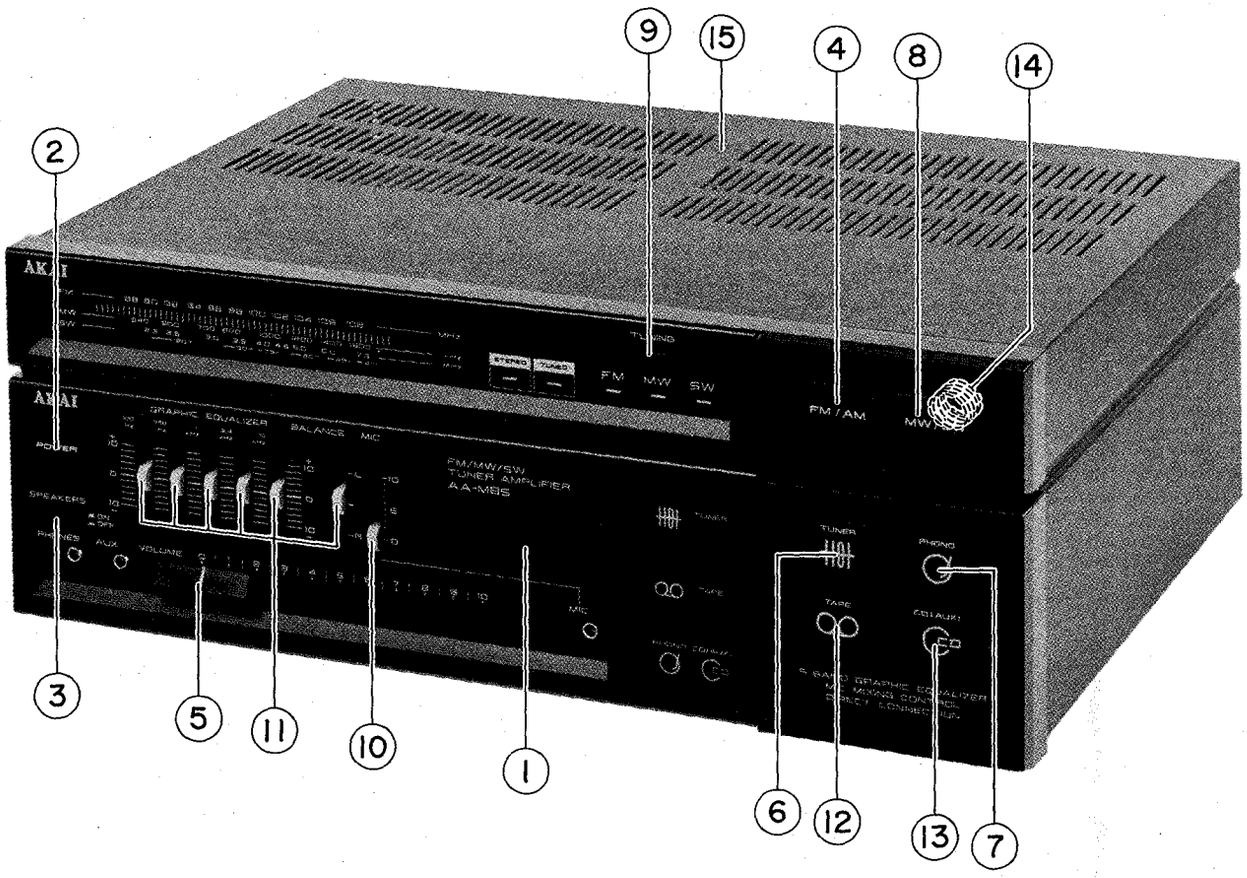




## 17. ASSEMBLY BLOCK

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 17-1 | SE-715813 | BACK PLATE |
| 17-2 | MS-715815 | SHAFT TUNING ASSY |
| 17-3 | TA-707194 | PULLEY D7 BLK |
| 17-4 | ML-714956 | LEVER SWITCH |
| 17-5 | SA-711043 | RUBBER FOOT |
| 17-6 | ML-714957 | LEVER SWITCH [FM/AM,MW/SW] |
| 17-7 | ML-714958 | LEVER SWITCH [PHONO, CD(AUX)] |
| 17-8 | ML-714959 | LEVER SWITCH [TUNER,TAPE] |
| 17-9 | MD-714961 | POINTER |
| 17-10A | SP-715816 | PANEL REAR AA-M8S (U) [U] |
| 17-10B | SP-715835 | PANEL REAR AA-M8S (C) [C] |
| 17-10C | SP-715832 | PANEL REAR AA-M8S (A) [A] |
| 17-10D | SP-715887 | PANEL REAR AA-M8L (E) [E] |
| 17-10E | SP-715885 | PANEL REAR AA-M8L (B) [B] |
| 17-10F | SP-715838 | PANEL REAR AA-M8S (S) [S] |
| 17-11 | MR-715537 | DIAL WHEEL |
| 17-12 | ZG-714963 | SP COIL |
| 17-13 | SZ-715517 | HOLDER ANT |
| 17-14x | EE-712884 | ANT LOOP |
| 17-15 | ZS-711051 | EARTH SCREW |
| 17-16 | EZ-631945 | STRAIN RELIEF SR-4N-4 |

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 17-17A | EW-707212 | ⚠ AC CORD [U] |
| 17-17B | EW-713056 | ⚠ AC CORD [C,A] |
| 17-17C | EW-706423 | ⚠ AC CORD [E] |
| 17-17D | EW-713107 | ⚠ AC CORD [B] |
| 17-17E | EW-706424 | ⚠ AC CORD [S] |
| 17-PT1A | BT-715818 | ⚠ TRANS POWER R-W770599-5 (U) [U] |
| 17-PT1B | BT-715837 | ⚠ TRANS POWER R-W770599-4(C) [C] |
| 17-PT1C | BT-715833 | ⚠ TRANS POWER R-W770599-6(A) [A] |
| 17-PT1D | BT-715888 | ⚠ TRANS POWER R-W770599-1 (E) [E] |
| 17-PT1E | BT-715886 | ⚠ TRANS POWER R-W770599-2 (B) [B] |
| 17-PT1F | BT-715839 | ⚠ TRANS POWER R-W770599-3 [S] |
| 17-JK2 | EJ-714965 | ⚠ SOCKET OUTLET [U,A] |
| 17-JK1 | EJ-711054 | TERMINAL PUSH 4P |
| 17-S1 | ES-714966 | ⚠ SW PUSH SDL1P 4A/32A 250 |
| 17-S3 | ES-710966 | ⚠ SW ROTARY R-S47646-1 [U] |
| 17-C1 | EC-338411 | ⚠ C CE V FZ 103P 400AC [U,A] |

FINAL ASSEMBLY BLOCK




## 18. FINAL ASSEMBLY BLOCK

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| | | **PANEL FRONT PART** |
| 18-1A | BD-715811 | PANEL FRONT PART AA-M8S-B [U,C,A,S] |
| 18-1B | BD-715883 | PANEL FRONT PART AA-M8L-B [E,B] |
| | | **FINAL ASSEMBLY BLOCK** |
| 18-2 | SK-343017F | KNOB POWER-B |
| 18-3 | SK-356619B | KNOB (B)-S |
| 18-4 | SK-715510 | KNOB FM/AM-B |
| 18-5 | SK-715523 | KNOB VR |
| 18-6 | SK-715524 | KNOB TUNER-B |
| 18-7 | SK-715525 | KNOB PHONO-B |
| 18-8A | SK-715812 | KNOB MW/SW [U,C,A,S] |
| 18-8B | SK-715884 | KNOB MW/LW [E,B] |
| 18-9 | SK-715535 | KNOB TUNING |
| 18-10 | SK-715534 | KNOB MIC |
| 18-11 | SK-715532 | KNOB EQ |
| 18-12 | SK-715530 | KNOB TAPE-B |
| 18-13 | SK-715531 | KNOB CD/AUX-B |
| 18-14 | ZG-714955 | SP COIL |
| 18-15 | SP-715817 | COVER UPPER |
| 18-16x | EJ-713009 | SOCKET |

# INDEX


| PART NO. | REF. NO. | PART NO. | REF. NO. | PART NO. | REF. NO. | PART NO. | REF. NO. | PART NO. | REF. NO. |
|---|---|---|---|---|---|---|---|---|---|
| BA-715819 | 1-1A | EJ-713009 | 18-16 | SK-715532 | 18-11 | | | | |
| BA-715820 | 1-2 | EJ-714965 | 17-JK2 | SK-715534 | 18-10 | | | | |
| BA-715823 | 1-3 | EJ-714988 | 14-JK1 | SK-715535 | 18-9 | | | | |
| BA-715824 | 1-4A | EJ-715822 | 5-JK201 | SK-715812 | 18-8A | | | | |
| BA-715834 | 1-1B | EO-707225 | 3-L10 | SK-715884 | 18-8B | | | | |
| BA-715840 | 1-1C | EO-707230 | 3-T3 | SP-715816 | 17-10A | | | | |
| BA-715889 | 1-4B | EO-707990 | 3-L5B | SP-715817 | 18-15 | | | | |
| BD-715811 | 18-1A | EO-711184 | 16-L1 | SP-715832 | 17-10C | | | | |
| BD-715883 | 18-1B | EO-711971 | 3-L9 | SP-715835 | 17-10B | | | | |
| BT-715818 | 17-PT1A | EO-711971 | 3-L8 | SP-715838 | 17-10F | | | | |
| BT-715833 | 17-PT1C | EO-714997 | 3-L2 | SP-715885 | 17-10E | | | | |
| BT-715837 | 17-PT1B | EO-714998 | 3-T1 | SP-715887 | 17-10D | | | | |
| BT-715839 | 17-PT1F | EO-715024 | 3-L4 | SZ-715517 | 17-13 | | | | |
| BT-715886 | 17-PT1E | EO-715025 | 3-L6 | TA-707194 | 17-3 | | | | |
| BT-715888 | 17-PT1D | EO-715040 | 3-T2 | ZG-714955 | 18-14 | | | | |
| EC-304849 | 3-C35 | EO-715828 | 3-L3 | ZG-714963 | 17-12 | | | | |
| EC-306017 | 3-C36B | EO-715830 | 3-L7A | ZS-711051 | 17-15 | | | | |
| EC-334692 | 2-C651 | EO-715890 | 3-L7B | | | | | | |
| EC-334692 | 2-C652 | EO-716314 | 3-L5A | | | | | | |
| EC-338411 | 16-C1 | ER-301697 | 2-R654 | | | | | | |
| EC-338411 | 17-C1 | ER-301697 | 2-R653 | | | | | | |
| EC-637132 | 3-C36A | ER-308898 | 3-R57 | | | | | | |
| EC-349968 | 3-CT6 | ER-336841 | 2-R651 | | | | | | |
| EC-349968 | 3-CT4 | ER-336841 | 2-R652 | | | | | | |
| ED-327057 | 2-D611 | ER-520863 | 3-R16 | | | | | | |
| ED-327057 | 3-D101 | ER-539087 | 2-R615 | | | | | | |
| ED-327057 | 3-D4 | ER-658124 | 2-R710A | | | | | | |
| ED-327057 | 3-D1 | ER-658124 | 2-R610A | | | | | | |
| ED-327057 | 3-D3 | ER-663502 | 2-R708 | | | | | | |
| ED-337414 | 15-D171 | ER-663502 | 2-R608 | | | | | | |
| ED-345552 | 3-D2 | ER-666347 | 2-R609 | | | | | | |
| ED-357754 | 2-D658 | ER-666347 | 2-R709 | | | | | | |
| ED-357754 | 2-D660 | ER-666347 | 3-R1 | | | | | | |
| ED-357754 | 2-D613 | ER-710996 | 9-R631 | | | | | | |
| ED-357754 | 2-D612 | ER-710996 | 9-R731 | | | | | | |
| ED-357754 | 2-D659 | ER-711169 | 2-R610B | | | | | | |
| ED-357754 | 2-D657 | ER-714714 | 2-R606 | | | | | | |
| ED-710974 | 3-D5 | ER-714714 | 2-R706 | | | | | | |
| ED-712909 | 2-D656 | ER-714970 | 2-R710B | | | | | | |
| ED-712909 | 2-D655 | ES-712932 | 9-S631 | | | | | | |
| ED-714989 | 10-D154 | ES-714966 | 17-S1 | | | | | | |
| ED-714989 | 10-D155 | ES-714066 | 17-S3 | | | | | | |
| ED-714989 | 10-D153 | ES-715821 | 4-S251 | | | | | | |
| ED-714990 | 10-D152 | ES-715831 | 3-S2 | | | | | | |
| ED-714991 | 10-D151 | ET-403413 | 8-Q461 | | | | | | |
| ED-714992 | 11-D271 | ET-711090 | 3-Q1 | | | | | | |
| ED-714992 | 11-D273 | ET-714975 | 4-Q251 | | | | | | |
| ED-714992 | 11-D275 | ET-715009 | 3-Q2 | | | | | | |
| ED-714992 | 11-D276 | EV-714981 | 6-VR408 | | | | | | |
| ED-715933 | 2-D652 | EV-714984 | 7-VR405 | | | | | | |
| ED-715933 | 2-D653 | EV-714984 | 7-VR407 | | | | | | |
| ED-715933 | 2-D651 | EV-714984 | 7-VR406 | | | | | | |
| ED-715933 | 2-D654 | EV-714984 | 7-VR403 | | | | | | |
| EE-712884 | 17-14x | EV-714984 | 7-VR404 | | | | | | |
| EE-715826 | 3-VC | EV-714985 | 7-VR402 | | | | | | |
| EF-323616 | 2-F601B | EV-714986 | 7-VR401 | | | | | | |
| EF-323616 | 2-F701B | EV-715006 | 3-SVR1 | | | | | | |
| EF-623103 | 16-F1A | EW-706423 | 17-17C | | | | | | |
| EF-691007 | 2-F701A | EW-706424 | 17-17E | | | | | | |
| EF-691007 | 2-F601A | EW-707212 | 17-17A | | | | | | |
| EF-710905 | 16-F1B | EW-713056 | 17-17B | | | | | | |
| EH-714999 | 3-X1 | EW-713107 | 17-17D | | | | | | |
| EH-714999 | 3-X2 | EZ-631945 | 17-16 | | | | | | |
| EH-715003 | 3-X3 | MD-714961 | 17-9 | | | | | | |
| EH-715827 | 3-L1 | ML-714956 | 17-4 | | | | | | |
| EI-713319 | 3-IC1 | ML-714957 | 17-6 | | | | | | |
| EI-714731 | 3-IC801 | ML-714958 | 17-7 | | | | | | |
| EI-714969 | 2-IC651 | ML-714959 | 17-8 | | | | | | |
| EI-714974 | 4-IC251 | MR-715537 | 17-11 | | | | | | |
| EI-714983 | 6-IC401 | MS-715815 | 17-2 | | | | | | |
| EI-714983 | 6-IC501 | SA-711043 | 17-5 | | | | | | |
| EI-715008 | 3-IC3 | SE-715813 | 17-1 | | | | | | |
| EI-715019 | 2-IC601 | SK-343017F | 18-2 | | | | | | |
| EI-715891 | 3-X4 | SK-356619B | 18-3 | | | | | | |
| EI-715892 | 3-IC2 | SK-715510 | 18-4 | | | | | | |
| EJ-356521 | 12-JK382 | SK-715523 | 18-5 | | | | | | |
| EJ-711054 | 17-JK1 | SK-715524 | 18-6 | | | | | | |
| EJ-712930 | 8-JK461 | SK-715525 | 18-7 | | | | | | |
| EJ-712931 | 9-JK631 | SK-715530 | 18-12 | | | | | | |
| EJ-712931 | 13-JK281 | SK-715531 | 18-13 | | | | | | |

# AKAI

## MODEL AA-M8S/L

## SCHEMATIC DIAGRAM AND PC BOARD

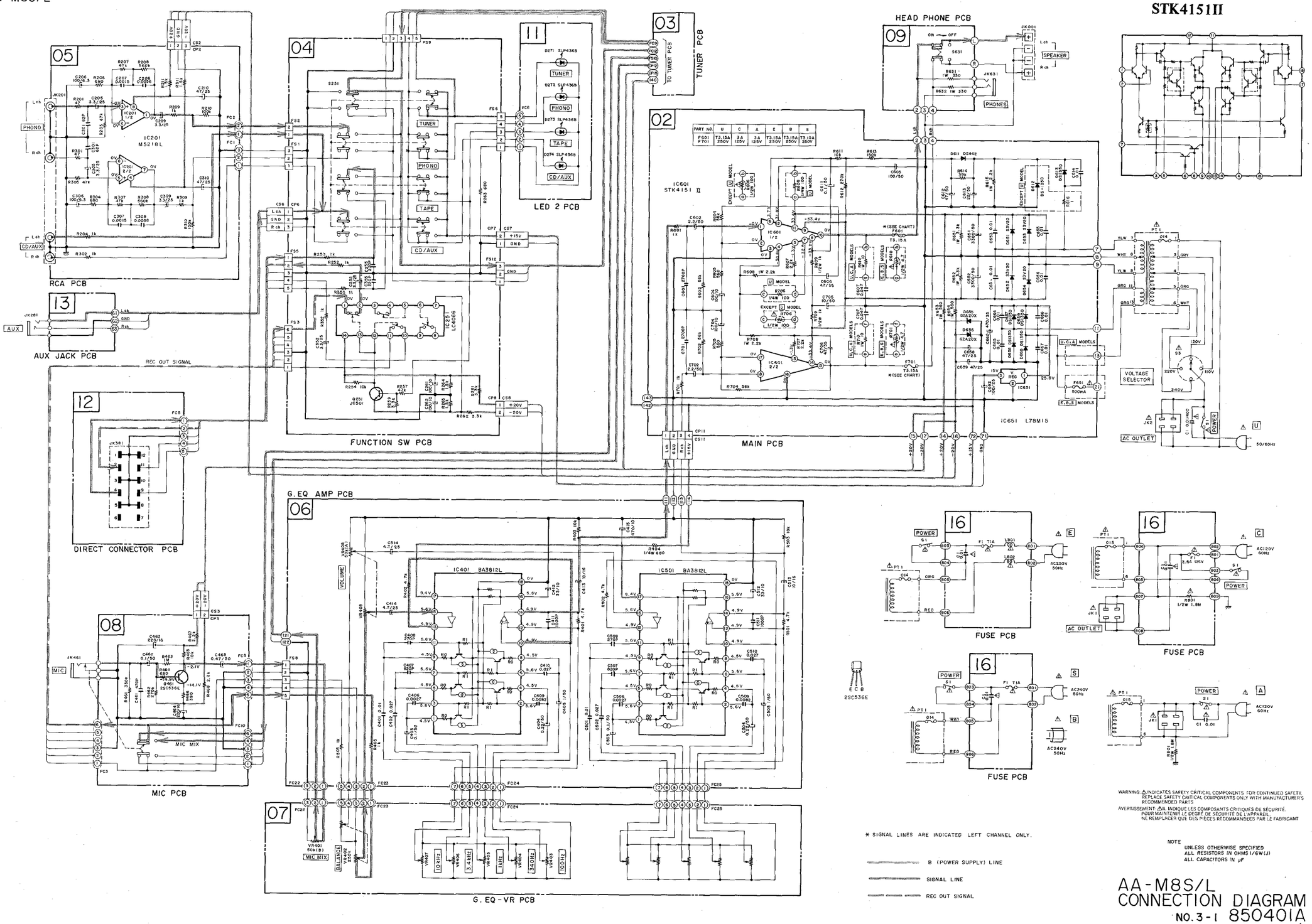

1. BLOCK DIAGRAM OF IC's . . . . . 1
2. MODEL M8S/L CONNECTION . . . . . 2
3. AUX JACK PCB, DIRECT CONNECTOR PCB, FUNCTION SW PCB, FUSE PCB, G·EQ-AMP PCB, G·EQ-VR PCB, HEADPHONE PCB, LED2 PCB, MAIN PCB, MIC PCB, RCA PCB . . . . . 3
4. AA–M8S TUNER SCHEMATIC DIAGRAM . . . . . 4
5. ANT TERMINAL PCB, POINTER LED PCB, LED I PCB, TUNER PCB . . . 5
6. AA–M8S TUNER SCHEMATIC DIAGRAM . . . . . 6
7. ANT TERMINAL PCB, POINTER LED PCB, LED I PCB, TUNER PCB . . . 7
8. AA–M8S/L BLOCK DIAGRAM . . . . . 8


### BLOCK DIAGRAM OF IC'S

| NAME OF IC | FUNCTION |
|---|---|
| BA3812L | 5 spots Graphic Equalizer |
| LA1261 | FM/AM IF, Quadrature Detector |
| LA3400 | FM MPX |
| M5218L | Dual Low noise OP-Amp |
| STK4151-II | Audio Signal power Amp |
| TA7358AP | FM RF Amp, MIX, Local OSC |
| TC4066BP | Quad Bilateral Switch (Analogue Switch) |

AA-M8S/L

**STK4151II**




* SIGNAL LINES ARE INDICATED LEFT CHANNEL ONLY.

B (POWER SUPPLY) LINE

SIGNAL LINE

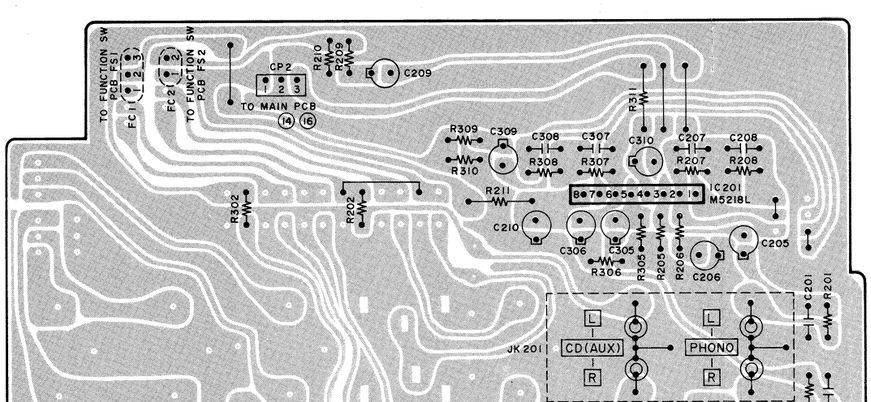
REC OUT SIGNAL

WARNING: △ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSEMENT: △ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

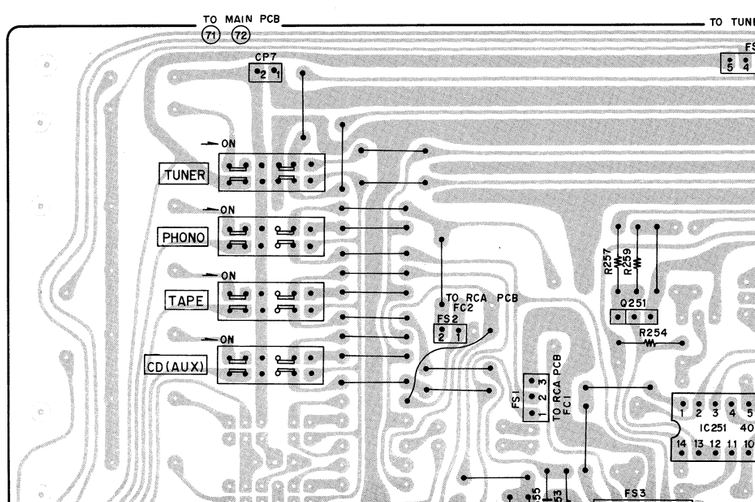
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(Ω)
ALL CAPACITORS IN μF

# AA-M8S/L CONNECTION DIAGRAM

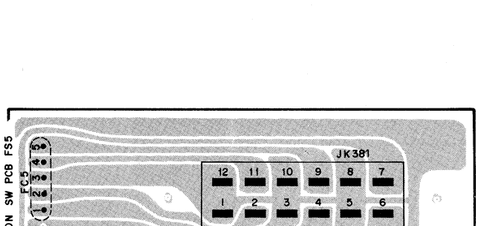
NO. 3-1 850401A



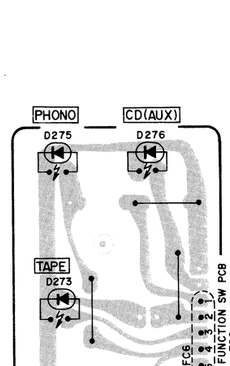

RCA PCB



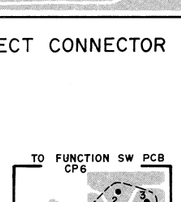

FUNCTION SW PC



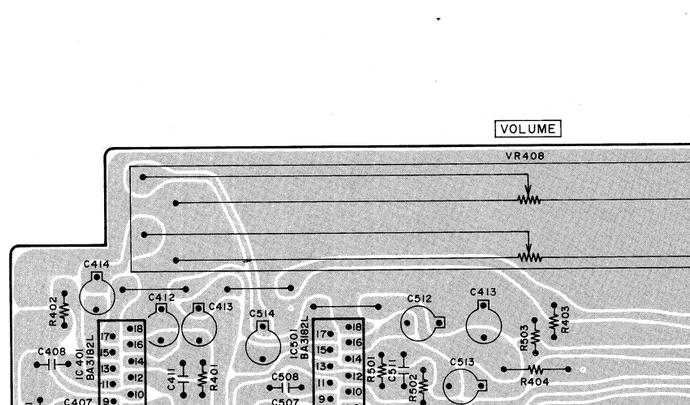

DIRECT CONNECTOR PCB



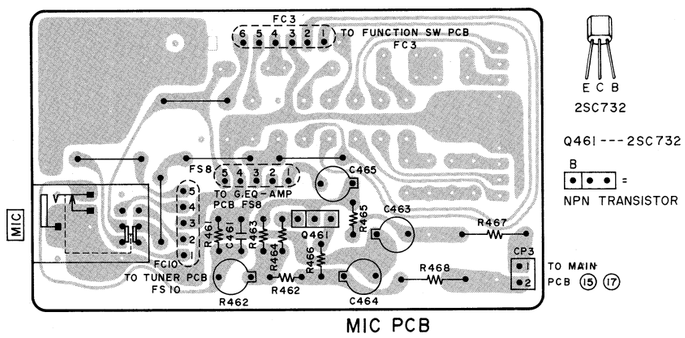

LED 2 PCB




AUX JACK PCB




G.EQ-AMP PCB




MIC PCB

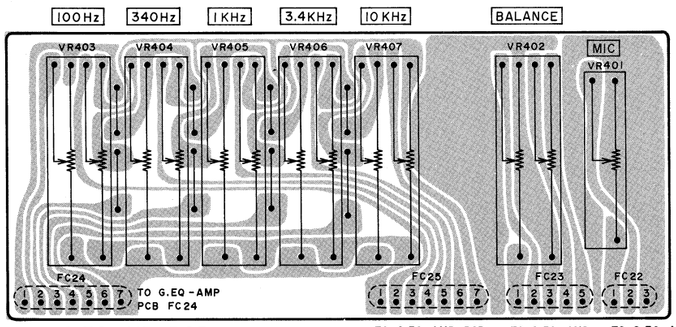



2SC732

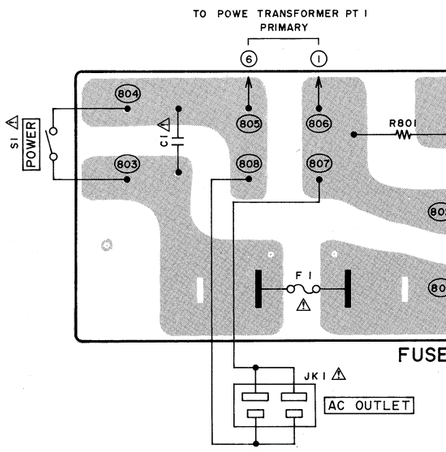
Q461 --- 2SC732




NPN TRANSISTOR

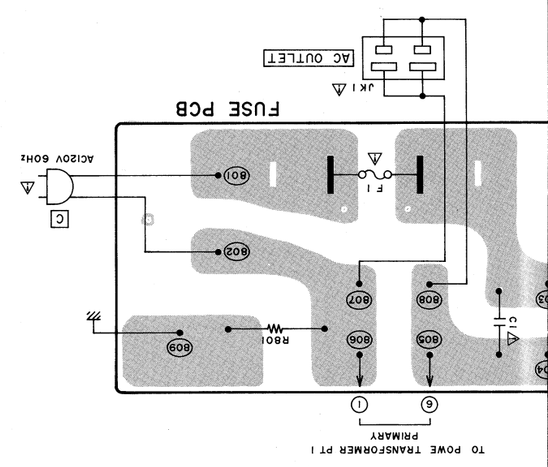


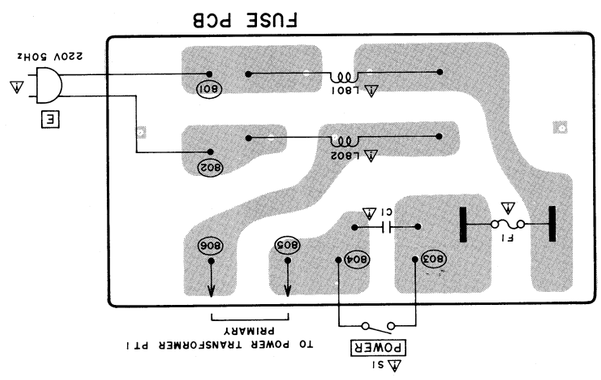

G.EQ-VR PCB

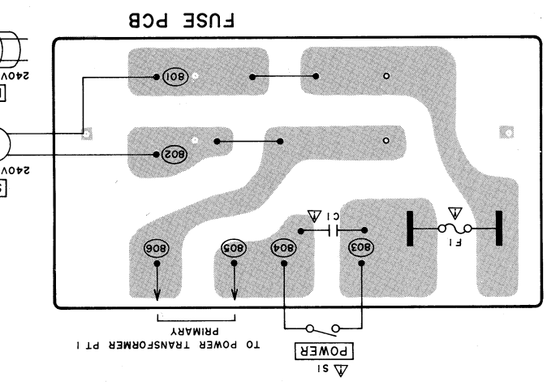


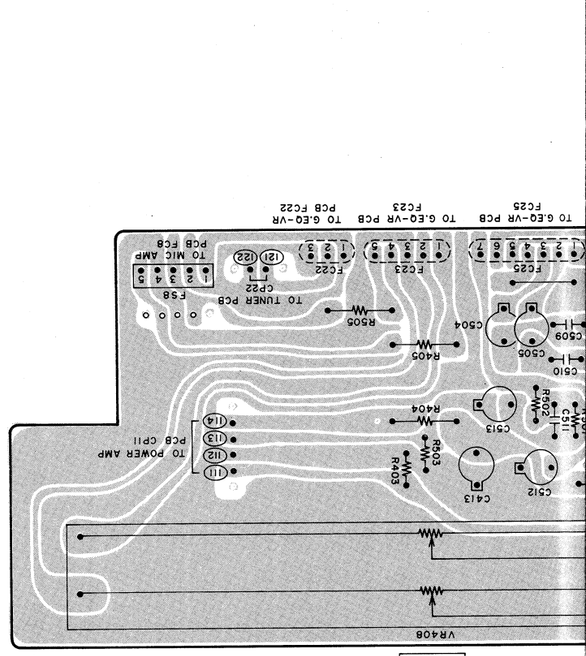

FUSE

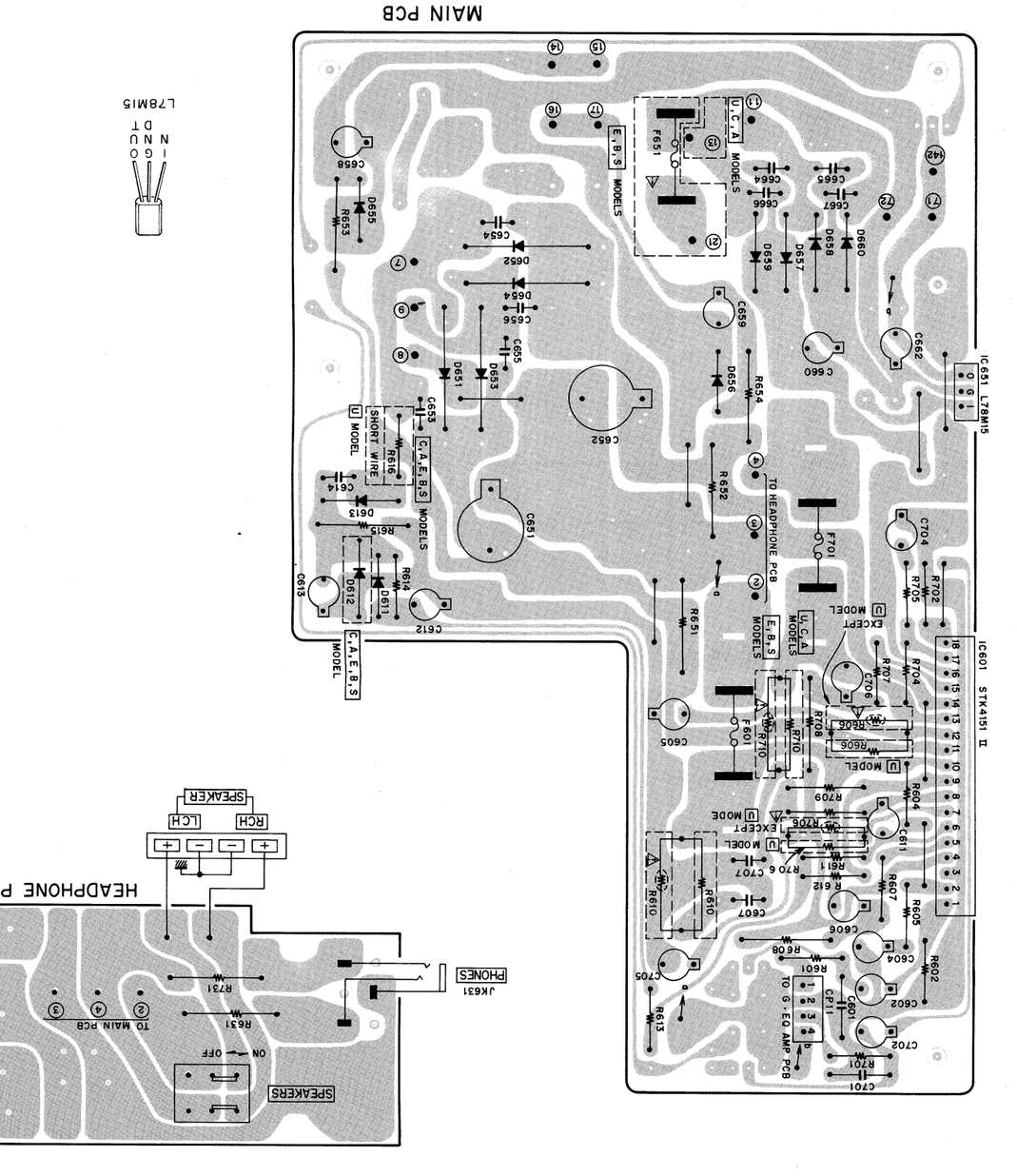
WARNING: △INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS
AVERTISSEMENT: △IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT



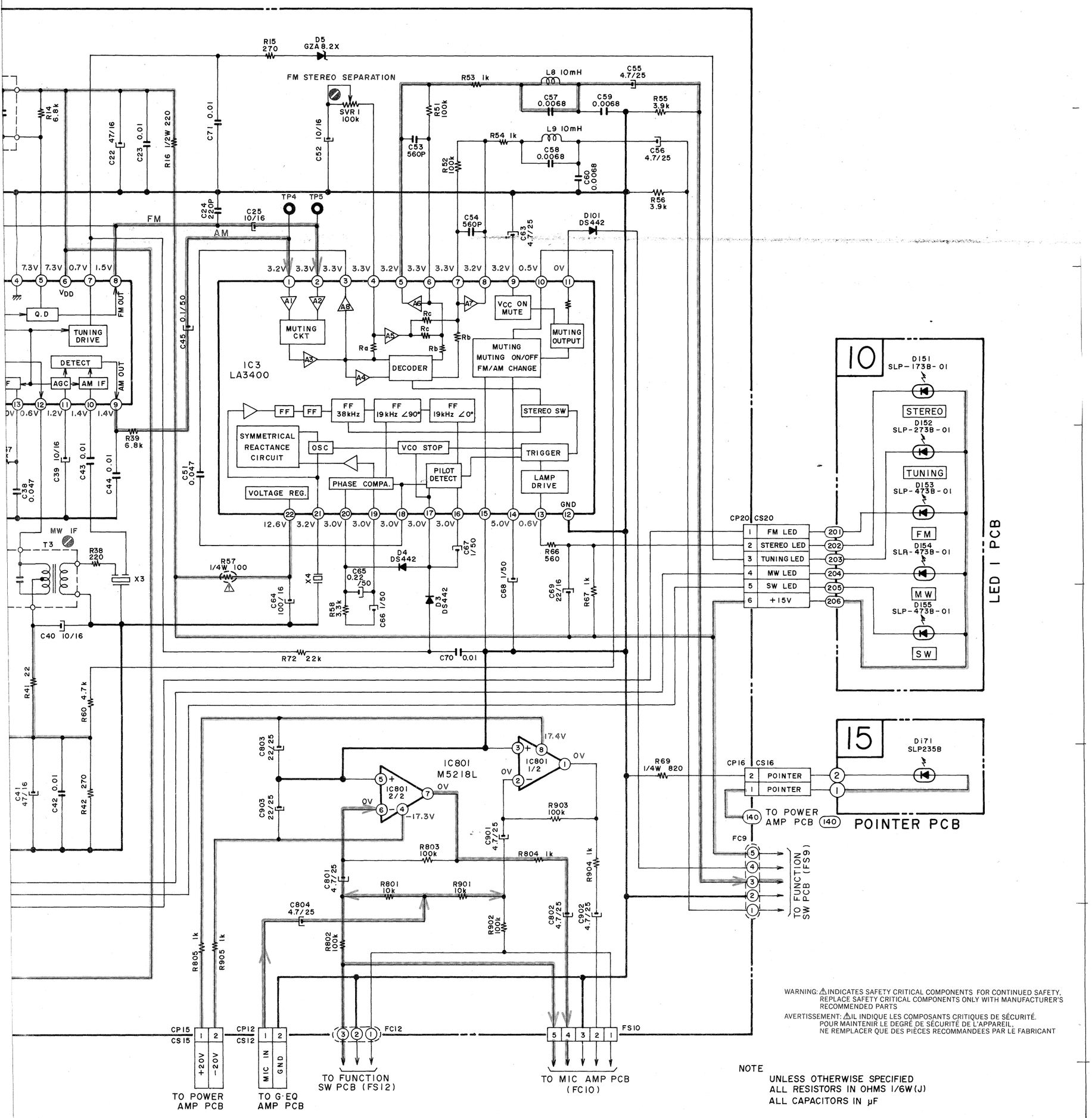



# AA-M8S


03
IC1 TA7358AP
VOLTAGE REG.
BIAS
BUFFER AMP
RF AMP
MIX
LOCAL OSC
Vcc
Q1 2SC930(E)
FM IF T1
FM IF T2
X1
X2
CS17 CP17
FM ANT 1
FM ANT 2
TP1
TP2
TP3
FM SENSITIVITY (HIGH)
FM SENSITIVITY (LOW)
FM LOCAL OSC (HIGH)
FM LOCAL OSC (LOW)
IC2 LA1261
FM IF
Q.D
TUNING DRIVE
VDD
FM OUT
MIX
OSC
RF
AGC
AM IF
DETECT
AM OUT
MW SENSITIVITY (HIGH)
MW SENSITIVITY (LOW)
Q2 2SK315E
MW LOCAL OSC (LOW)
MW LOCAL OSC (HIGH)
SW SENSITIVITY (LOW)
SW SENSITIVITY (HIGH)
SW LOCAL OSC (LOW)
SW LOCAL OSC (HIGH)
MW IF T3
14
JK1
FM ANT
AM LOOP
GND
ANT PCB
CS18 CP18
LOOP ANT 1
LOOP ANT 2
S2-1
S2-2
S2-3
S2-4
S2-5
S2-6
MW
SW
S1-1
S1-2
AM
FM
E C B
2SC930
D S G
2SK315E
TUNER PCB
CP15
CS15
+20V
-20V
TO POWER AMP PCB
* INDICATED VOLTAGES ARE MESURED AT FM(STEREO) TUNED MODE.
B(POWER SUPPLY) PCB
SIGNAL LINE




WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

NOTE

UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF

# AA-M8S TUNER SCHEMATIC DIAGRAM

NO. 3-2 850402A 4

**ADJUSTING PARTS FOR AA-M8S**

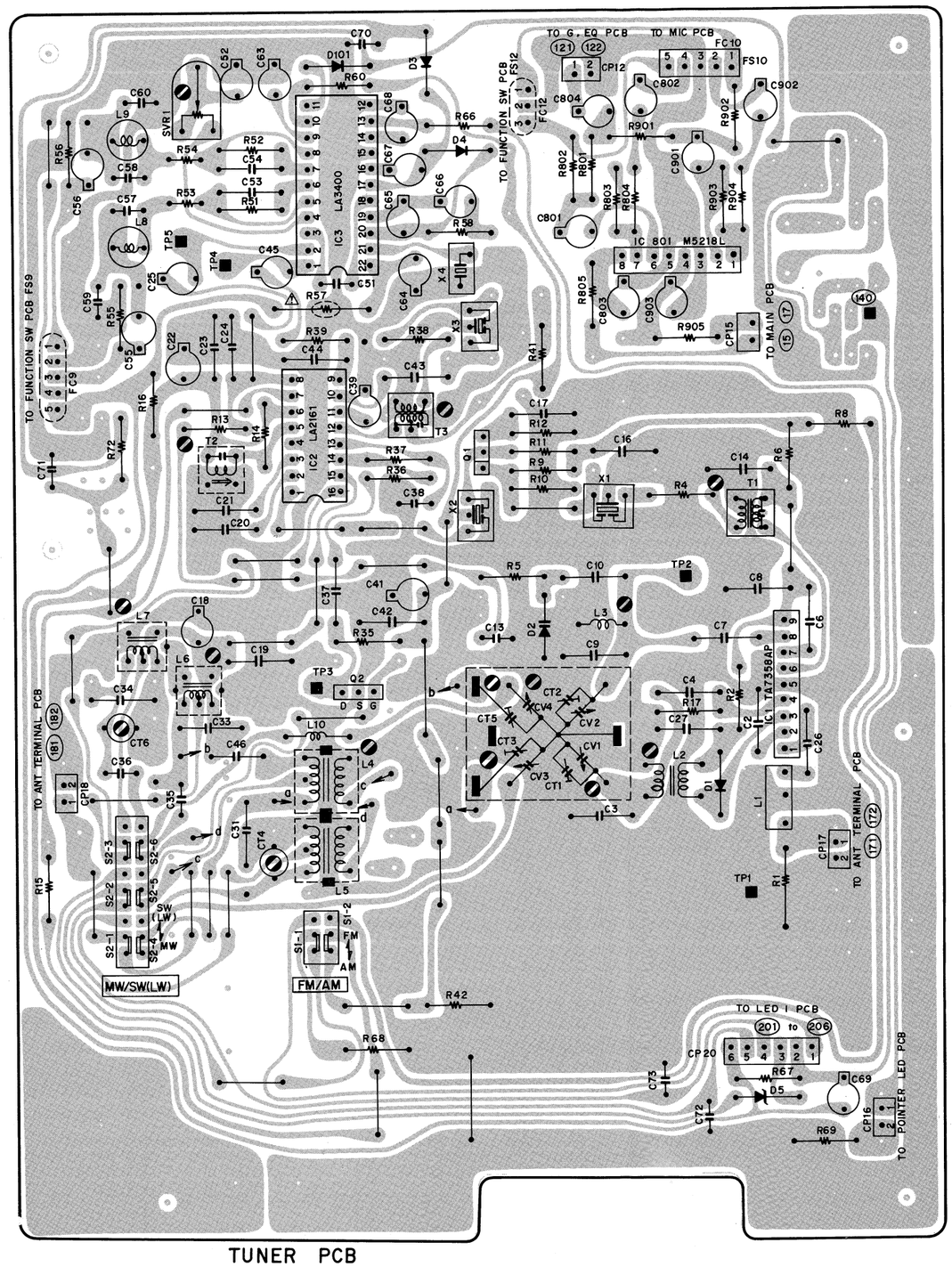
| | | |
|---|---|---|
| T3 | MW | IF |
| L6 | MW | LOCAL OSC (Low) |
| CT5 | MW | LOCAL OSC (High) |
| L4 | MW | SENSITIVITY (Low) |
| CT3 | MW | SENSITIVITY (High) |
| L7 | SW | LOCAL OSC (Low) |
| CT6 | SW | LOCAL OSC (High) |
| L5 | SW | SENSITIVITY (Low) |
| CT4 | SW | SENSITIVITY (High) |
| T1,T2 | FM | IM |
| L3 | FM | LOCAL OSC (Low) |
| CT2 | FM | LOCAL OSC (High) |
| L2 | FM | SENSITIVITY (Low) |
| CT1 | FM | SENSITIVITY (High) |
| SVR | FM | SEPARATION |

**ADJUSTING PARTS FOR AA-M8L**

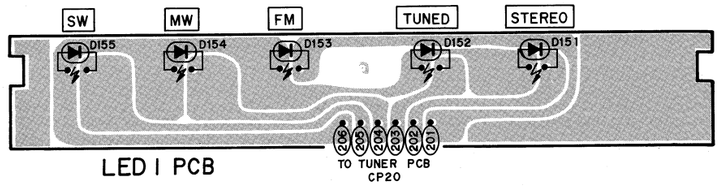
| | | |
|---|---|---|
| T3 | MW | IF |
| L6 | MW | LOCAL OSC (Low) |
| CT5 | MW | LOCAL OSC (High) |
| L4 | MW | SENSITIVITY (Low) |
| CT3 | MW | SENSITIVITY (High) |
| L7 | LW | LOCAL OSC (Low) |
| CT6 | LW | LOCAL OSC (High) |
| L5 | LW | SENSITIVITY (Low) |
| CT4 | LW | SENSITIVITY (High) |
| T1,T2 | FM | IF |
| L3 | FM | LOCAL OSC (Low) |
| CT2 | FM | LOCAL OSC (High) |
| L2 | FM | SENSITIVITY (Low) |
| CT1 | FM | SENSITIVITY (High) |
| SVR1 | FM | SEPARATION |

2SK315E 2SC930

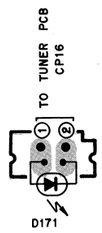
Q1 .....2SC930 (E)
Q2 .....2SK315E



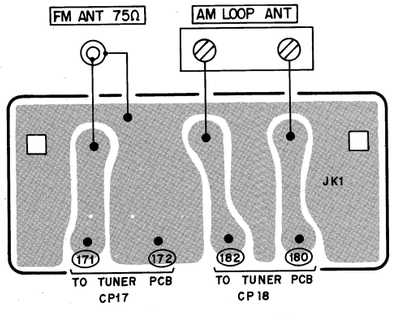

TUNER PCB




LED I PCB




POINTER LED PCB




ANT TERMINAL PCB

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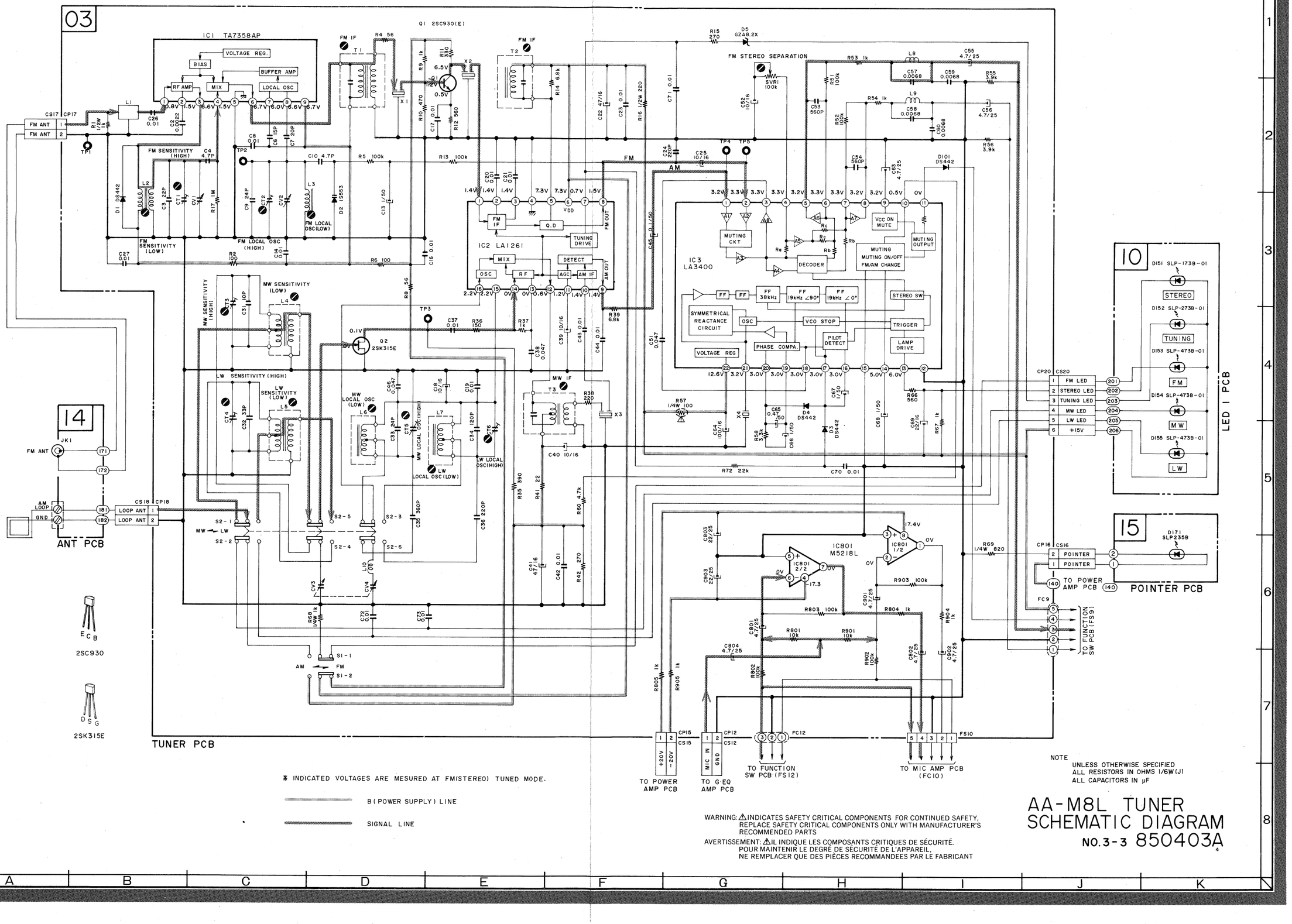
AA - A8L




* INDICATED VOLTAGES ARE MESURED AT FM(STEREO) TUNED MODE.

B(POWER SUPPLY) LINE

SIGNAL LINE

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

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# AA-M8L TUNER SCHEMATIC DIAGRAM

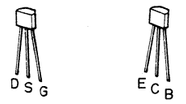
NO.3-3 850403A 4

**ADJUSTING PARTS FOR AA-M8S**

| | | |
|---|---|---|
| T3 | MW | IF |
| L6 | MW | LOCAL OSC (Low) |
| CT5 | MW | LOCAL OSC (High) |
| L4 | MW | SENSITIVITY (Low) |
| CT3 | MW | SENSITIVITY (High) |
| L7 | SW | LOCAL OSC (Low) |
| CT6 | SW | LOCAL OSC (High) |
| L5 | SW | SENSITIVITY (Low) |
| CT4 | SW | SENSITIVITY (High) |
| T1,T2 | FM | IM |
| L3 | FM | LOCAL OSC (Low) |
| CT2 | FM | LOCAL OSC (High) |
| L2 | FM | SENSITIVITY (Low) |
| CT1 | FM | SENSITIVITY (High) |
| SVR | FM | SEPARATION |

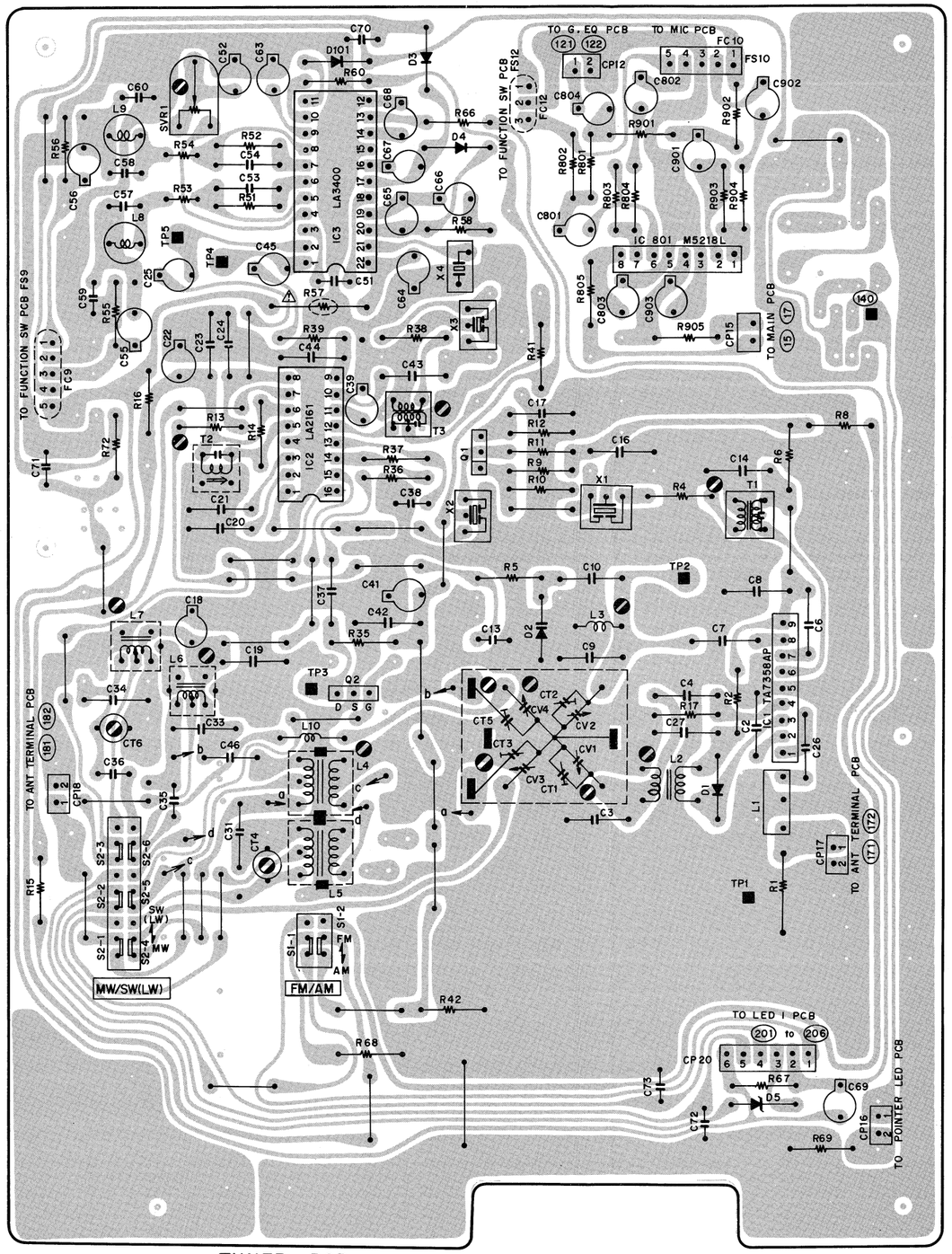
**ADJUSTING PARTS FOR AA-M8L**

| | | |
|---|---|---|
| T3 | MW | IF |
| L6 | MW | LOCAL OSC (Low) |
| CT5 | MW | LOCAL OSC (High) |
| L4 | MW | SENSITIVITY (Low) |
| CT3 | MW | SENSITIVITY (High) |
| L7 | LW | LOCAL OSC (Low) |
| CT6 | LW | LOCAL OSC (High) |
| L5 | LW | SENSITIVITY (Low) |
| CT4 | LW | SENSITIVITY (High) |
| T1,T2 | FM | IF |
| L3 | FM | LOCAL OSC (Low) |
| CT2 | FM | LOCAL OSC (High) |
| L2 | FM | SENSITIVITY (Low) |
| CT1 | FM | SENSITIVITY (High) |
| SVR1 | FM | SEPARATION |

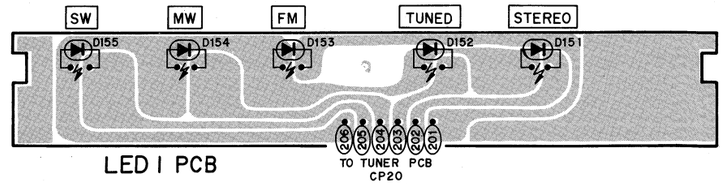



2SK315E 2SC930

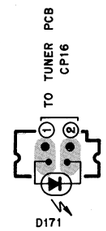
Q1 ..... 2SC930 (E)
Q2 ..... 2SK315E



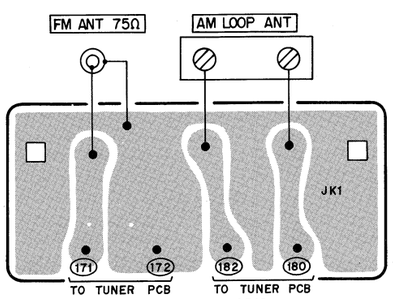

TUNER PCB




LED I PCB




POINTER LED PCB

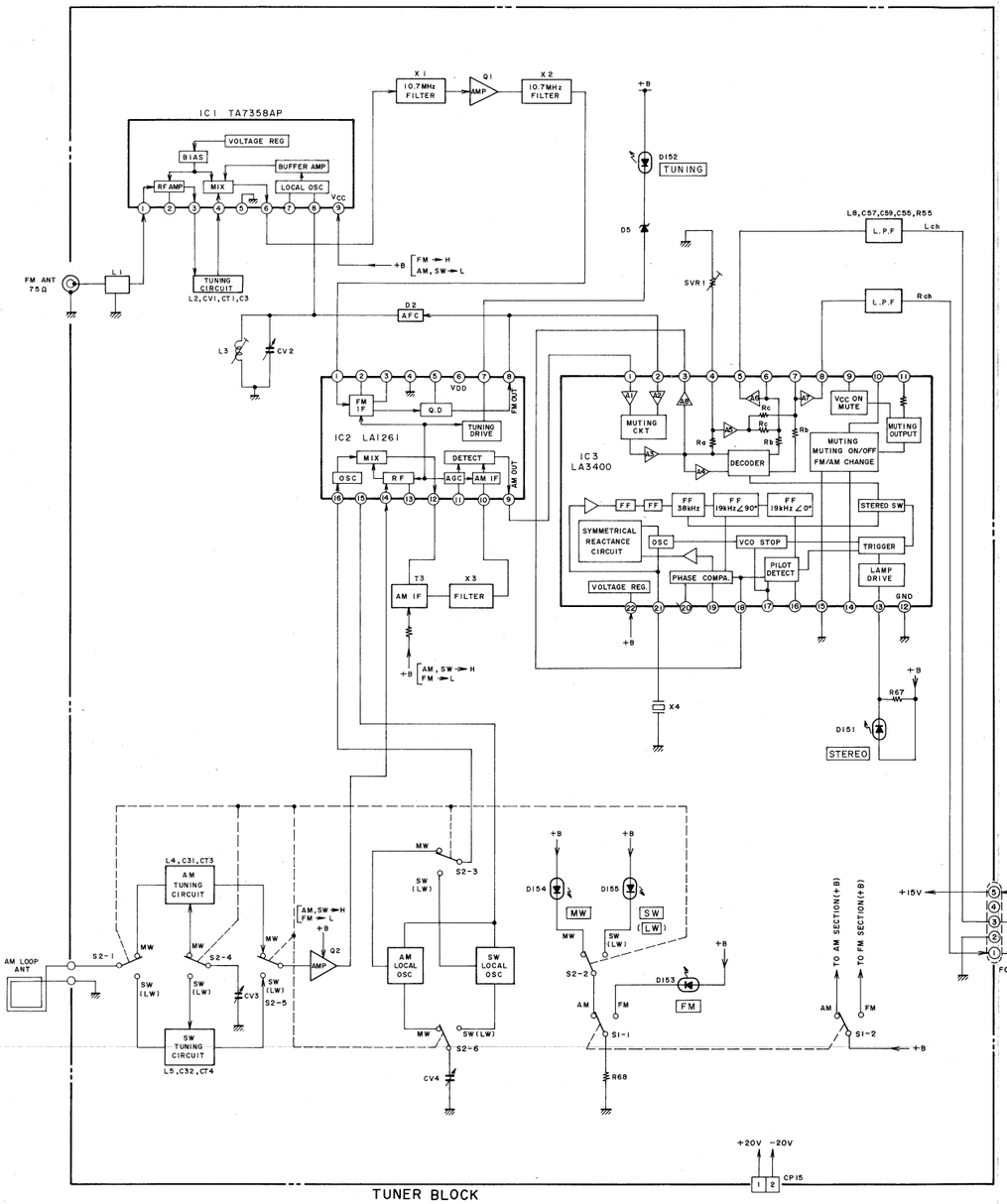


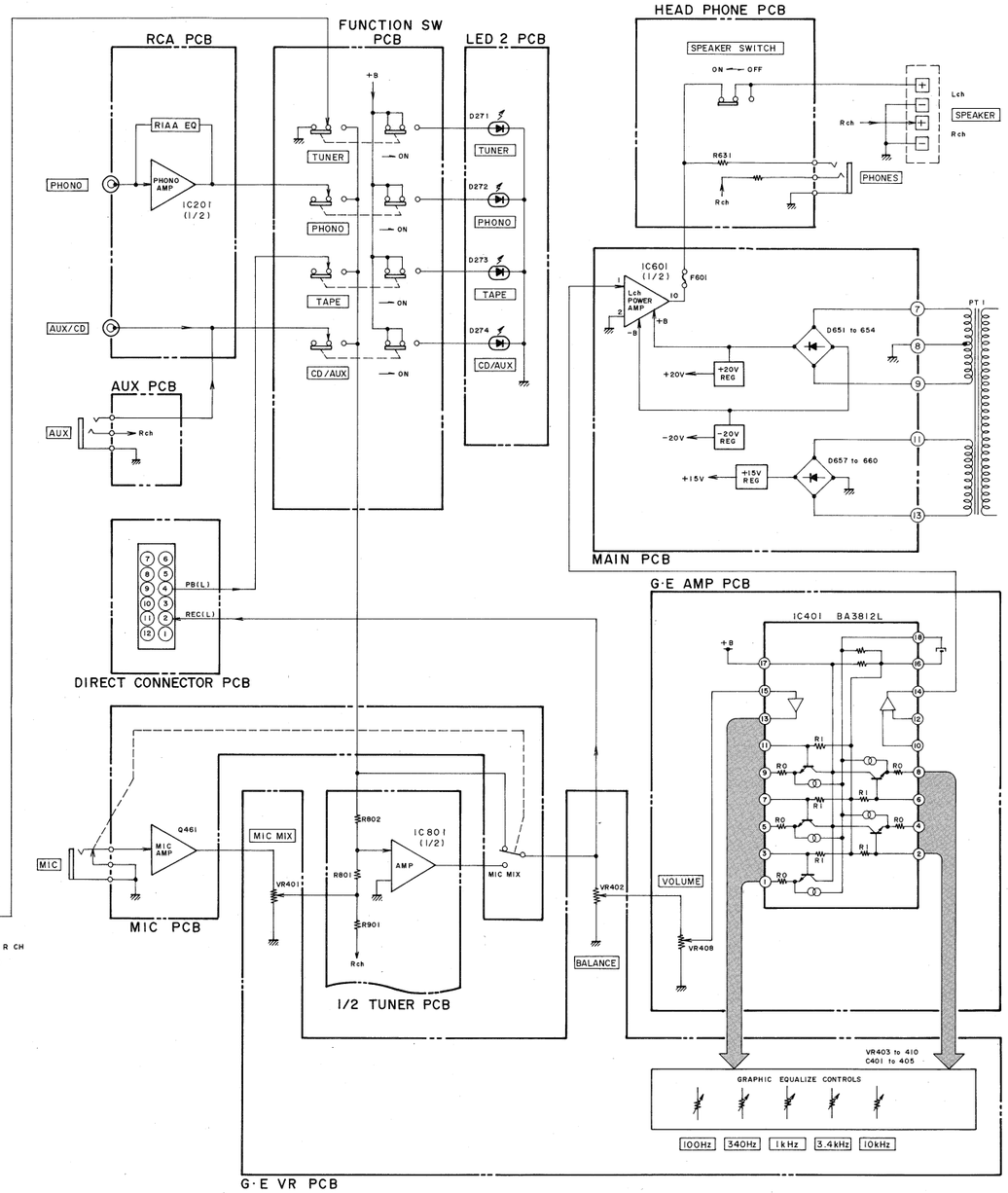

ANT TERMINAL PCB

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

AA-M8S/L




※ THIS BLOCK DIAGRAM IS INDICATED LEFT CHANNEL ONLY.

AA-M8S/L
BLOCK DIAGRAM
NO. 850404A2